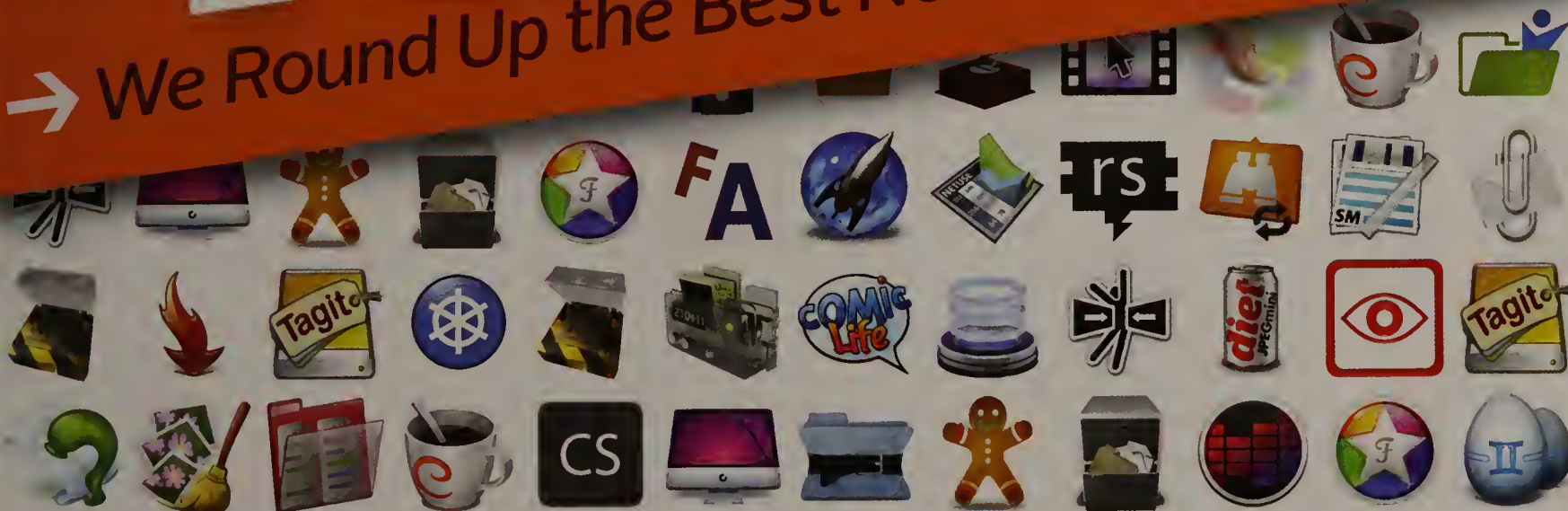


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September 2012



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H.264

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ATEM uses a familiar M/E style of operation so you get an instantly familiar workflow that's fast and easy to use. ATEM includes a software based control panel for Mac and Windows! If you need a hardware control panel then simply add the ATEM 1 M/E Broadcast Panel for a true broadcast grade solution. Thousands of ATEM switchers are used today for live broadcast events such as sports, music festivals, drama, reality TV and much more!

ATEM Television Studio
\$995





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Looking Sharp



On the Cover

COVER STORY

32 Hidden Treasures

If you're a Mac user, you're barely a click away from a cache of hidden software gems—programs that will help you get the most out of your Mac, your media files, the Internet, and more. And best of all, these gems will cost you little or no dough.

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The big news in Apple's recent update of its laptop line is the Retina MacBook Pro. But all the laptop models boast upgrades, from better displays to faster graphics to better expansion options. Read our hands-on, lab-tested reviews.

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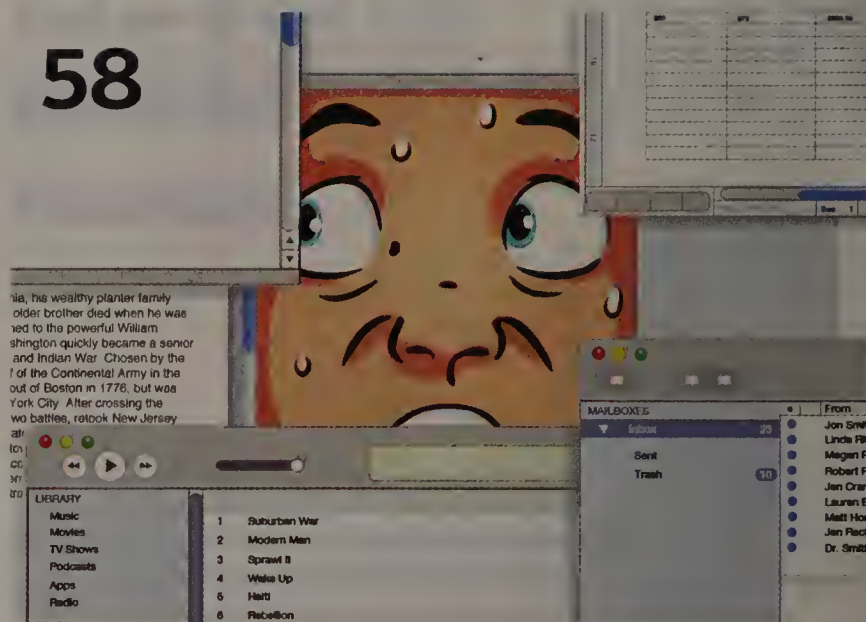
Manually configure an iCloud email account, reinstall Rosetta, locate and dispense with old applications, and more.

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Should Apple split its Mac operating system into two versions, one aimed at the consumer market and the other at pro-level users?

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Video: Fix a Slow Mac with Activity Monitor

If a single misbehaving app is slowing your Mac down to a crawl, Activity Monitor can find the culprit (macworld.com/a/1167116).

We also recommend:

Podcast: MacBooks under the Microscope (macworld.com/a/1167352).

Video: Sign Your PDFs Electronically with Preview (macworld.com/a/1167361).

Podcast: Macworld Pundit Showdown at WWDC (macworld.com/a/1167265).

Podcast: TRVL and the Future of Digital Publishing (macworld.com/a/1167445).

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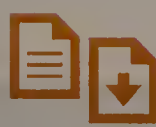
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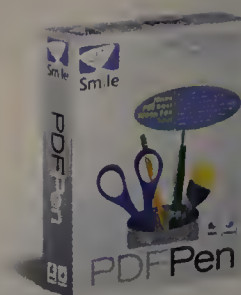


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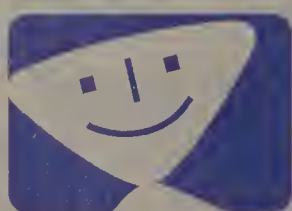


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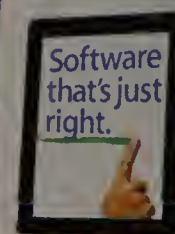
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Smile



Two Roads, Diverged

Some people worry that Apple is merging OS X and iOS. They needn't fret.

When you come to a fork in the road," Yankees great Yogi Berra once remarked, "take it." That seems to be Apple's current plan for its two major platforms. While some users worry about platform fragmentation, and others worry that the juggernaut of iOS will subsume their beloved OS X, it seems pretty clear that the company is splitting future development into two separate but parallel paths.

I was in the audience at June's Worldwide Developers Conference keynote, when Apple rolled out its plans for both iOS 6 and Mountain Lion. It occurred to me then that the coincidence of features is creating parity, not convergence, between the two operating systems. For example, the goal of adding iOS-first apps (such as Reminders and Notes) to Mountain Lion or long-awaited features (such as the ability to upload pictures in Safari) to iOS is to make both operating systems as complete as possible, not to make them identical.

That's why many of the features Apple executives discussed at WWDC—Do Not Disturb, Facebook integration, VIPs in Mail—were explicitly mentioned as coming to *both* iOS and OS X.

A Tool for Every Purpose

Despite Microsoft's recent announcement of the Surface, its PC-tablet-floor-wax-and-dessert-topping, the immediate future—the one we'll be living in ten minutes, six months, and even a few years from now—is still one in which people have multiple devices. Plenty of times, one device is simply superior to another. My iPhone excels at letting me stay in touch no matter where I am, but it's terrible for working on my novel. My Mac is great at editing HD video, but not so good at helping me look up directions on the road. And I still prefer reading books on my Kindle to reading them on any of my iOS devices.

Until the ultimate toaster-fridge *does*



If Apple thought iOS was the better of the two platforms, it would already have discarded OS X.

get developed, Apple is firmly embracing the notion that we'll use multiple devices for multiple purposes. After all (and I'm speaking from personal experience), you don't really want to pound in a nail with a screwdriver.

Apple recognizes that there are different tools for different purposes. At the same time, it knows that while some features should never migrate from one platform to another, customers will appreciate it when others do. So, though it may be pretty obvious why there's no Final Cut Pro for the iPhone, you shouldn't have to give up, say, the ability to create smart folders in Mail just because you're using a pocketable device.

Of course, Apple does want all of its devices to play together nicely. That's why it's building in features like Reading List in iOS 5 and Lion, and now iCloud Tabs in iOS 6 and Mountain Lion. That's why iCloud syncing is available for more and more OS features. Your devices remain portals to your data, the ideal that Steve Jobs put forth when he introduced Apple's

newest online service. To me, these actions suggest that both iOS and OS X have a long, profitable life ahead of them.

Not Dead Yet

All this is a lengthy way to say that rumors of OS X's demise—or even just of its dumbing down—are greatly exaggerated. The Mac OS is evolving, but it's not dying, despite the many conspiracy theories to the contrary. Frankly, the release of a machine like the new Retina Display MacBook Pro—a machine for pros if ever I've seen one—should reassure Mac users that the personal computer is still firmly in Apple's plans for the future. (See our review of the new MacBook Pros on page 46.)

Because, really, if Apple thought iOS was the better of the two platforms, it would already have discarded OS X. Apple is hardly afraid of making drastic moves like killing hot products to introduce new ones, or even losing features to make under-the-hood changes. (To be fair, there's almost certainly a Mac running iOS somewhere in Cupertino, just as the company had Intel-compatible versions of OS X in place long before its platform switch.)

Instead, the company has continued to iterate on both platforms—it has even increased the pace of OS X development in the past couple years with Lion and Mountain Lion. And it has shown it's not only willing but also committed to delivering improvements to both platforms.

In a talk a few years before his death, Steve Jobs famously compared the future of tablets and computers to that of cars and trucks. And with every release of iOS and OS X, we've seen Apple inch ever closer to this ideal: differentiation where it makes sense, parity everywhere else. After all, a car is not a truck, but you sure want them both to have airbags, a heater, and a working radio.

Dan Moren is a senior editor at *Macworld*.

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September 2012, Volume 29, Issue 9

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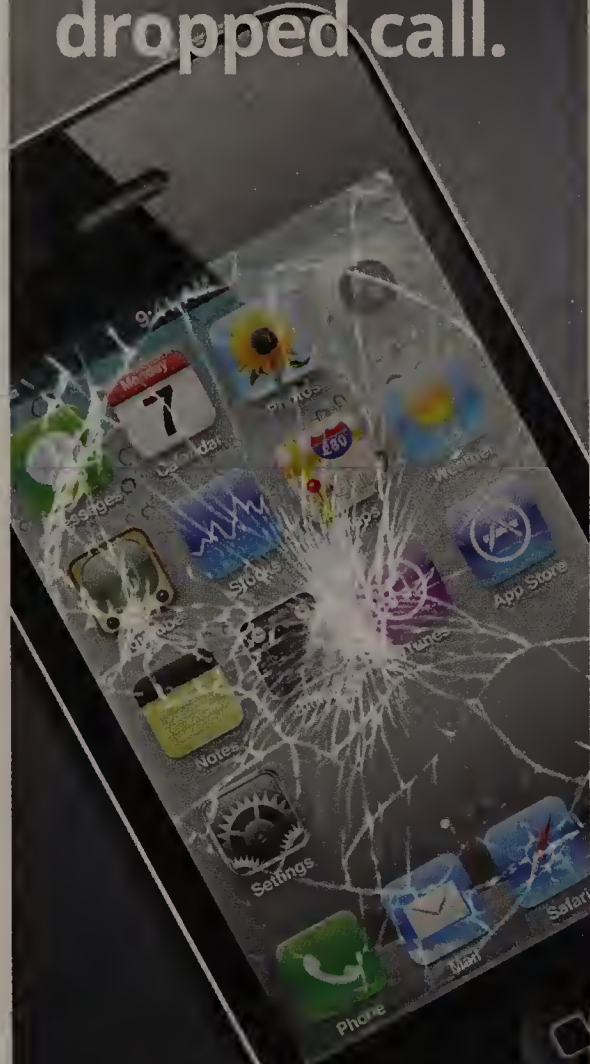
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Moving Mountain Lions

In this month's *Feedback*, we look forward to Mountain Lion's arrival on the Mac, drool over Apple's new array of laptops, and keep an eye on the horizon for iOS 6.

ROARING TO THE SCENE

Apple is not a company that revels in legacy technology. The answer is clear: If you don't want to use Mountain Lion, you don't want to use a Mac. Either accept it or find a new platform.

*Jasonmwa,
via the Macworld.com forums*



media with OS X will make my MacBook a truly personal computer. Some people may be turned off by this, but if you use your Mac for work, remember that social media is becoming more and more part of business nowadays.

*ksuyen, via the
Macworld.com forums*

Drag-and-drop files in screen sharing might be a small addition, but it will prove incredibly useful!

jowie, via the Macworld.com forums

I have been using a Mac for the last seven years, and I am honestly happy with the direction Apple is taking with this upcoming OS. The convergence of social

I'm just a regular guy with a Mac, so I'm not out there on the bleeding edge of anything. I'll wait a couple of months for the bugs to get sorted out before I upgrade. Nothing in Mountain Lion makes me so greedy that I'm likely to move sooner, but nothing is so off-putting that I'll forgo it, either. I suspect that I'm

typical of most Mac users: I just muddle along with whatever Apple thinks is best. Does that make me pathetic? No, it makes me an average guy who doesn't obsess over one of my tools just because it happens to be one of my very *best* tools.

*RichardSRussell, via the
Macworld.com forums*

RETINA REVOLUTION

My credit card is now heavier than my soon-to-arrive Retina MacBook Pro.

mwickler, via the Macworld.com forums

I bought the new non-Retina 15-inch MacBook Pro to replace my old one, but with the 1680 by 1050 screen for \$100 extra. It makes a bit of difference when I'm trying to maximize my screen real estate.

jonyo, via the Macworld.com forums

[Read our reviews of the new MacBook Pros in "Looking Sharp," page 46.—Ed.]

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AWAITING iOS 6

Our readers tell us what they're most excited about in iOS 6:

@clinton1550: Updating or installing an app no longer closes the App Store and boots you back to the home screen.

@conigs: Better handling of notifications (e.g. Do Not Disturb, etc).

@AlmostEleven: PassBook for sure! But I would like to see them reintegrate public transportation into the Maps app.

@justinlfowler: Maps sounds great, might replace my Garmin. I still feel it's the "S" model upgrade of iOS, not too excited. iOS 7 needs to be big.

THROUGH THE LENS: MAC PARTY

Each year my Mac friends and I get together to talk about everything Mac. A great time is had by all, and over 30-plus years, we have been able to see the progress every year. This year, most of us dressed up like Steve Jobs. It was great.

—Doug Schwab

Have a great Apple-centric photo? Send it to letters@macworld.com, and we may feature it in a future issue.



Prepare Your Mac for Mountain Lion

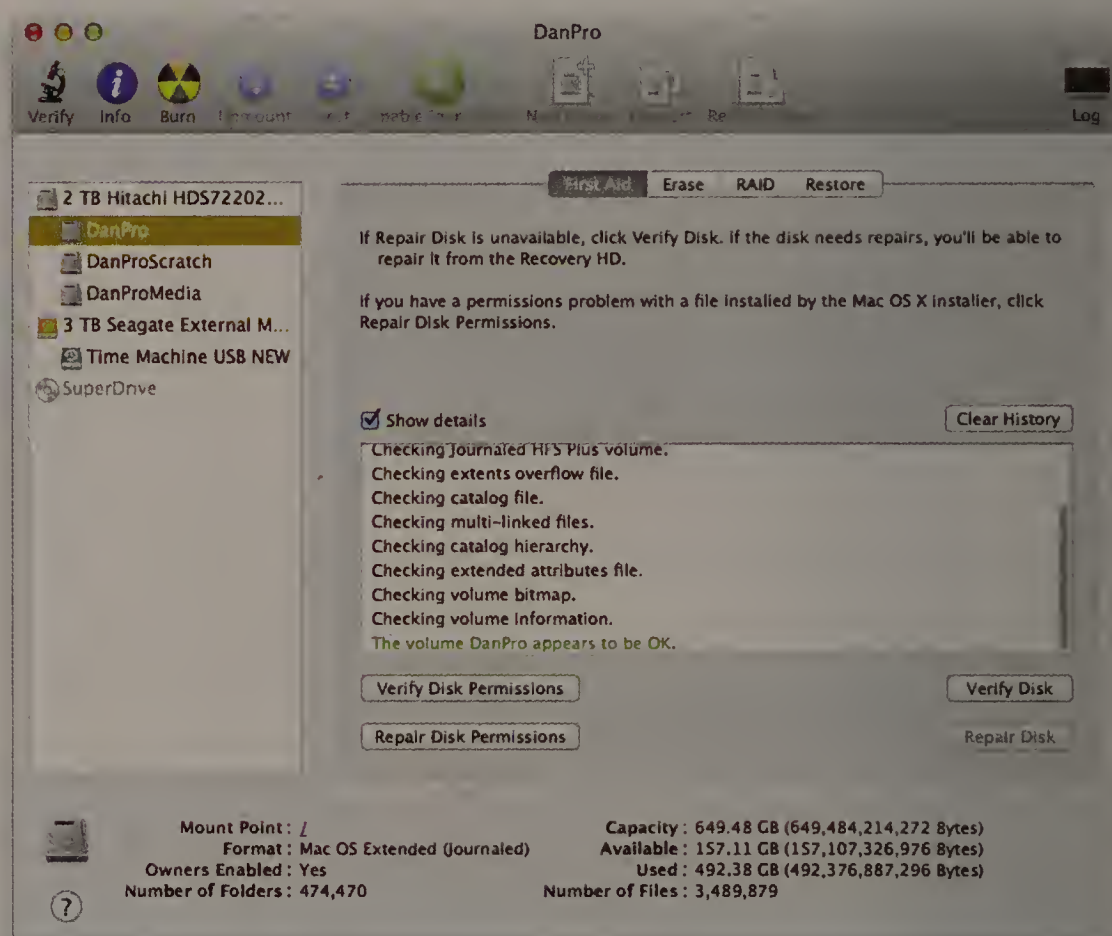
Get ready for Apple's latest operating system

BY DAN FRAKES

Apple is advertising OS X 10.8—Mountain Lion—as dead simple to install. But as with every major upgrade to OS X, there are a few things you can do before Mountain Lion is released to ensure that your Mac is ready.

To install Mountain Lion, you need a compatible Mac (see “Is Your Mac Compatible?”) running either OS X 10.6.8 (Snow Leopard) or any version of 10.7 (Lion). This last requirement is very important. Mountain Lion will be available only via the Mac App Store, which requires Mac OS X 10.6.6; and version 10.6.8 provides a number of enhancements that make upgrades to 10.7 or 10.8 go more smoothly. In addition, Apple recommends that you install the very latest updates to Snow Leopard or Lion before upgrading to Mountain Lion, so make sure to check Software Update for any available new versions.

If you're not sure precisely which Mac model you own or how much RAM or free drive space it has, choose About This Mac from the Apple menu, and then click More Info. In Lion, the resulting window displays your com-



Healthy Drive Disk Utility can verify that your Mac's drive is in tip-top shape.

puter's model year and version; click the Storage tab to view your drive's free space, and then click Memory to check its RAM amount. In Snow Leopard, you get a System Profiler window—select Memory to check the RAM amount; select Serial-ATA, and then select your

drive's name on the right, to see your free drive space. Unfortunately, Snow Leopard's System Profiler window doesn't display

your Mac's actual model year and version. However, the excellent

Macracker (free; macracker.ca) makes it simple to find this information: Just launch the Macracker app and select This Mac on the left, and your Mac's Macracker entry—complete with your system's official model year and version—is displayed to the right. What if you have an otherwise compatible Mac that's still running Leopard (OS X 10.5)? The easiest option is to purchase Snow Leopard for \$29 and install it now, and then upgrade to Mountain Lion when it's released. You'll still be paying less than the \$50 you'd pay for a huge OS upgrade.

Apple also says that you need 2GB of RAM (memory), although in my testing, you'll have a better experience with at least 4GB. If you have only 2GB, you might consider a hardware upgrade before installing OS X 10.8.

Apple recommends having at least 8GB of free space on your Mac's drive,

The better shape your Mac is in before Mountain Lion arrives, the better experience you'll have during and after the upgrade.

your Mac's actual model year and version. However, the excellent Macracker (free; macracker.ca) makes it simple to find this information: Just launch the Macracker app and select This Mac on the left, and your Mac's Macracker entry—complete with your

but I recommend playing it safe by aiming for 15GB or more—the Mountain Lion installer itself is more than 4GB, plus you need some room for temporary files. You may also find, especially if you're upgrading from Snow Leopard, that some of Mountain Lion's features require more disk space.

Preinstall Tasks

Perform the following tasks before the upgrade, and you'll have a much better chance of having a pain-free installation experience.

A Healthy Startup Drive Open Disk Utility (in /Applications/Utilities), select your startup drive in the list on the left, click the First Aid tab to the right, and then click Verify. If Disk Utility finds problems, you'll need to boot from a different volume to perform the actual repairs using the Repair Disk button. If you are upgrading from Lion and your Mac can use Lion Recovery, you can boot into recovery mode (by holding down \mathbb{R} at startup) and use Disk Utility from there. If you created a bootable Lion-install drive or a separate Lion Recovery drive, you can boot from that drive and use Disk Utility. If you're upgrading from Snow Leopard, you can use Disk Utility when booting your Mac from either your Snow Leopard installation DVD or the OS X installation DVD or thumb drive that shipped with your computer.

Back Up Back up your Mac's data. I personally recommend creating a bootable-clone backup (using Super-Duper or Carbon Copy Cloner) for the task, although a Time Machine backup will do as well.

Disable FileVault If you're upgrading from Snow Leopard and you're using FileVault, OS X's built-in account-encryption feature, on any of your Mac's accounts, disable FileVault before upgrading to Mountain Lion. Mountain Lion, like Lion before it, uses a different approach to encryption, called FileVault 2. Apple says that you can keep using the Snow Leopard implementation for previously encrypted user accounts, but FileVault 2 is the better way to go, and what better time to make the switch than now?

Run Software Update To make sure you're running both the latest version of Mac OS X and the latest versions of any other Apple software that the upgrade might affect, you should run Software Update. You should also check for updated firmware for your particular Mac model (support.apple.com/kb/HT1237).

Set Up iCloud Account In Lion and Mountain Lion, iCloud, Apple's cloud-syncing service, is integrated into many apps and system services. To avoid being hassled about iCloud syncing when you first log in to Mountain Lion, simply make sure that you're logged in to your iCloud account under Lion, and that you've

Is Your Mac Compatible?

Apple says that to run Mountain Lion you need one of the following computers, already running OS X 10.6.8 or any version of OS X 10.7:

- > **iMac** (mid-2007 or later)
- > **MacBook** (late 2008 or later)
- > **MacBook Air** (late 2008 or later)
- > **MacBook Pro** (mid-2007 or later)
- > **Mac mini** (early 2009 or later)
- > **Mac Pro** (early 2008 or later)
- > **Xserve** (early 2009)

enabled syncing for the various types of supported data, before upgrading.

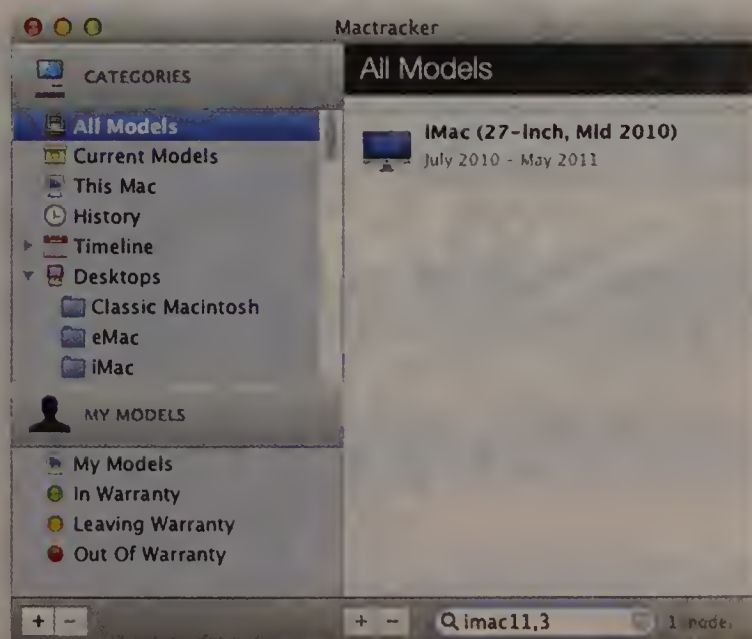
Ready and Waiting

Thanks to the Mac App Store, the process of purchasing, obtaining, and installing Mac OS X is faster and easier than ever—it has definite advantages over the old way of installing from optical discs. But the better shape your Mac is in before Mountain Lion arrives, the better experience you'll have during and after the upgrade. Now that your Mac is properly prepped, you can go to the Mac App Store, get your copy of the new OS, and run the installer once the OS ships. Soon afterward, you'll have Mountain Lion up and running.

Dan Frakes is a *Macworld* senior editor.



Spec Check In Lion, you can check your Mac's specs using the About This Mac window (left); Snow Leopard users can use Mactracker (right) to identify their Mac model.



New Mac Pro: About the Same as the Old

Pro desktop Mac gets a speed boost

BY JAMES GALBRAITH

REVIEW

The new Mac Pros have the same upgradable case, the same graphics cards, and even the same ports as its predecessor. However, Macworld Lab's test results show that the new Mac Pros are considerably faster than the systems they replace.

The Mac Pros aren't cheap. The new low-end Mac Pro costs \$2499 and comes with a 3.2GHz quad-core Xeon W3565

processor and 6GB of 1066 DDR3 RAM. The \$3799 Mac Pro has a pair of six-core 2.4GHz Xeon E5645 processors, and 12GB of 1333 DDR3 RAM. Both systems have 7200-rpm 1TB hard drives and ATI Radeon HD 5770 PCI Express graphics cards with 1GB of video memory.

The new Mac Pros lack Thunderbolt, USB 3.0, and the latest processor technology. It would've been nice if Apple had included Thunderbolt and USB 3.0 via a PCI Express card.

Performance

The new quad-core 3.2GHz Mac Pro is 16 percent faster overall than the 2010 quad-core 2.8GHz Mac Pro, and 8 percent faster than the 2010 eight-core 2.4GHz Mac Pro.

Going back further, the new system is 44 percent faster than the 2009 low-end quad-core 2.66GHz Mac Pro. While the file-duplication test results of the new low-end model and the 2010 low-end Mac Pro are nearly identical, the new system turned in considerably faster results on some tests, helped by a 14 percent faster processor and twice the RAM. For example, it ran the Photoshop test 31 percent faster than the 2010 quad-core model. (Go to macworld.com/7880 for detailed Speedmark 7 results.)

The new 12-core 2.4GHz Mac Pro is 10 percent faster overall than the 2010 eight-core 2.4GHz Xeon Mac Pro, and 31 percent faster than the 2009 eight-core 2.26GHz Xeon Mac Pro.

Mac Pro quad-core Intel Xeon/3.2GHz (mid-2012)

🔵🔵🔵🔵; \$2499; Apple; www.apple.com

Mac Pro 12-core Intel Xeon/2.4GHz (mid-2012)

🔵🔵🔵🔵; \$3799; Apple; www.apple.com



A system with fewer but faster processing cores will outperform a system with more cores that run at a slower speed. The new quad-core 3.2GHz Mac Pro was faster than the new 12-core 2.4GHz Mac Pro in 11 of our 16 individual tests, including our iTunes Encode test (17 percent faster), Pages Import test (16 percent faster), and iMovie Import test (16 percent faster). And though both use the same graphics cards with 1GB of video memory, the 3.2GHz quad-core Mac Pro was 21 percent faster in our Cinebench OpenGL test and 22 percent faster in our Portal 2 tests.

The 12-core Mac Pro excels when running apps that take advantage of multiple cores. The 12-core 2.4GHz Mac Pro is 28 percent faster than the new quad-core 3.2GHz Mac Pro in our HandBrake Encode test, 52 percent faster in our Cinebench CPU test, and 81 percent faster in our MathematicaMark 8 test.

This isn't the first 12-core system that Apple has ever shipped. A 2010 12-core



It's What's Inside that Counts Apple updated the processors in the new Mac Pro, but the case design remains the same.

2.66GHz Mac Pro was considered a build-to-order option in some Apple documents, but showed up as one of

three standard configurations on the Apple Store's Mac Pro page. That system, which is no longer available, cost \$4999, and it outperforms the new \$3799 12-core Mac Pro. The 2010 12-core Mac Pro is 7 percent faster in overall performance, 4 percent faster in MathematicaMark, 12 percent faster in our HandBrake Encode test, 8 percent faster in the Cinebench CPU test, and 13 percent faster in Cinebench's OpenGL test.

Macworld's Buying Advice

If you need multiple internal hard drives or PCI Express cards for your video or audio workstation, the Mac Pro is the most configurable Mac available. If your workflow includes one of the few applications that can take full advantage of 12 cores, then the speed increase may warrant spending the extra cash for a new Mac Pro.

James Galbraith is the director of Macworld Lab.



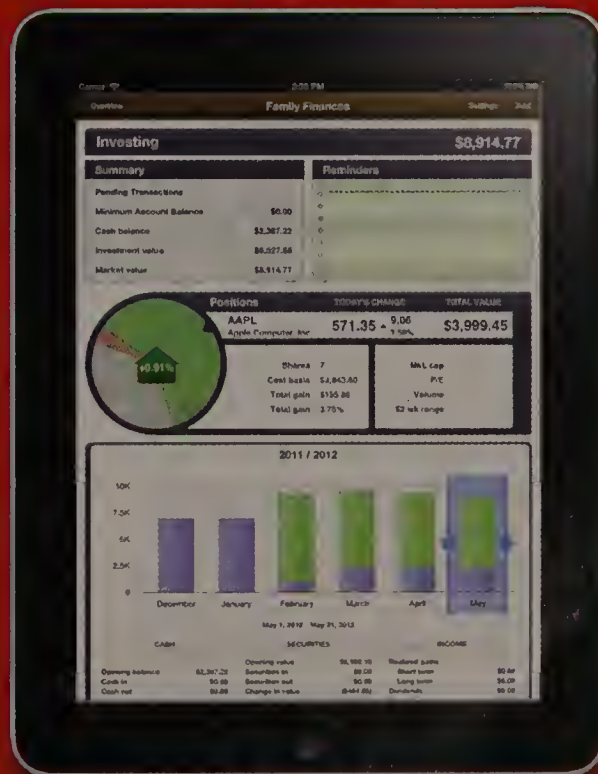
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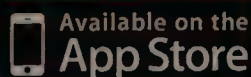
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New AirPort Express a Wi-Fi Powerhouse

Redesigned base station a vast improvement on previous model

BY GLENN FLEISHMAN

REVIEW

With the same \$99 price as its predecessors, the new AirPort Express Wi-Fi base station is powerful enough to serve a single-floor home or to act as a main base station to which other base stations are chained. Previously, doing either of these things would have required Apple's \$179 AirPort Extreme base station, or a Time Capsule.

In a significant improvement, the Express now lets you use both 2.4GHz or 5GHz bands of 802.11n at once (known as *simultaneous dual-band*). Previously, you had to choose one band.

The old AirPort Express had a single ethernet port, but the new model includes a second one. One ethernet port (labeled WAN) is used to connect to a broadband modem; the other port (labeled LAN) can be used by a single computer or an ethernet switch that allows you to connect many computers and devices.

The Express uses 10/100-megabits-per-second (mbps) ethernet—it doesn't support gigabit ethernet. But the 100-mbps limit doesn't affect Wi-Fi devices, which work at the maximum wireless rates available.

More Features

The new Express offers guest networking, which lets you create a second, virtual network with its own network name and security so that you can make it available to visitors or others without providing access to the main network.

The Express continues to offer a unique feature in Apple's Wi-Fi base station lineup: namely, a dual-function analog and digital optical (Toslink) port that lets it receive AirPlay audio streamed from iTunes running on a Mac or Windows system and from any AirPlay-capable iOS app.

The AirPort Extreme and Time Capsule models have two other

advantages, besides speed and range. The 2012 Express can share a single USB printer only through Bonjour. The Extreme and the Time Capsule use Bonjour sharing for a printer or hard drive through a USB port, but also allow the use of a USB hub to share multiple devices.

Little Box, Big Features Apple's new Wi-Fi base station is strong enough for a small home.

Macworld's Buying Advice

The Express makes an effective base station for modestly sized homes, or where access is needed only in a few adjacent rooms in an office. This sleek model is the right choice for many, and, at \$80 less than the AirPort Extreme, a prudent one as well.

Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 7 ¹	FIND CODE ²
DESKTOP						
iMac 	Intel Core i5/2.5GHz (quad-core)	★★★★	\$1199	21.5 inches	211	7197
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1499	21.5 inches	229	7198
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1699	27 inches	225	7199
	Intel Core i5/3.1GHz (quad-core)	★★★★	\$1999	27 inches	241	7200
Mac Mini 	Intel Core i5/2.3GHz	★★★★	\$599	not included	132	7429
	Intel Core i5/2.5GHz	★★★★	\$799	not included	161	7430
Mac Pro 	Intel Xeon/3.2GHz (quad-core)	★★★★½	\$2499	not included	254	7863
	Intel Xeon/2.4GHz (12-core)	★★★★½	\$3799	not included	259	7864
PORTABLE						
MacBook Air 	Intel Core i5/1.7GHz, 64GB	★★★★½	\$999	11 inches	231	7865
	Intel Core i5/1.7GHz, 128GB	★★★★	\$1199	11 inches	251	7866
	Intel Core i5/1.8GHz, 128GB	★★★★½	\$1299	13 inches	291	7867
	Intel Core i5/1.8GHz, 256GB	★★★★½	\$1599	13 inches	324	7868
MacBook Pro 	Intel Core i5/2.5GHz (dual-core)	★★★★½	\$1199	13 inches	161	7869
	Intel Core i7/2.9GHz (dual-core)	★★★★	\$1499	13 inches	189	7870
	Intel Core i7/2.3GHz (quad-core)	★★★★	\$1799	15 inches	221	7871
	Intel Core i7/2.6GHz (quad-core)	★★★★	\$2199	15 inches	239	7872
	Intel Core i7/2.3GHz (quad-core) ³	★★★★½	\$2199	15 inches	319	7873
	Intel Core i7/2.6GHz (quad-core) ³	★★★★½	\$2799	15 inches	330	7874

n/a = not available. ¹ Speedmark 7 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.7 (Lion). For more information on Speedmark testing, go to macworld.com. ² In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ³ Equipped with a Retina display.

★★★★½; \$99; Apple; www.apple.com



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Macworld **HOT STUFF**

What We're Raving
about This Month



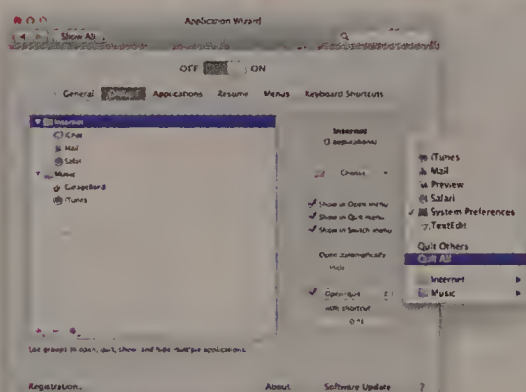
Wrapsol Original's Protective Film Wrap

If you're the proud owner of a new MacBook Pro with Retina display, you are probably interested in keeping its screen smudge- and scratch-free. But don't forget about its body. Why use a bulky covering that not only adds weight to the laptop, but also hides the beauty of the MacBook Pro design? Wrapsol Original's \$45 protective film wrap is made of thin polyurethane and provides an extra layer to prevent wear from everyday use. It's ultrathin, stretchy, and transparent, with an easy application process (and detailed instructions in case you need them). The film not only protects the laptop, but it's grippable, too. Wrapsol's generous warranty includes a lifetime replacement guarantee, so the film will last as long as your MacBook does (wrapsol.com).

—LEAH YAMSHON

Genius EasyPen M610XA Graphics-Design Tablet

Digital artists and photo editors will appreciate the latest graphics tablet from Genius, for its specs, software, and price. The \$170 EasyPen M610XA Graphics-Design Tablet is a USB-powered model that has a 6-by-10-inch working area for drawing, writing, and editing, and can easily be flipped between 4:3 and widescreen modes. The tablet includes a pressure-sensitive cordless stylus with extra pen tips, which are ideal for different brushstrokes. Most importantly, it includes Adobe Photoshop Elements 9 and Corel Painter Essentials 4. It's compatible with Mac OS X 10.4 or later (geniusnet.com).—LEAH YAMSHON

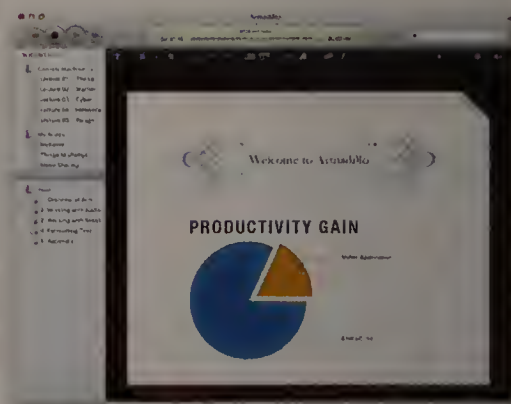


Application Wizard 3.3

MaBaSoft's \$19 Application Wizard is a menu-based tool for managing app launches and closures. You can group Mac apps into categories for improved organization, smoothly switch between open applications, and launch or close several apps at once. Additionally, Application Wizard can access all attached volumes and frequently used folders (mabasoft.net).—LEAH YAMSHON

Armadillo Audio Notes

This \$15 app is a full-featured text editor and an audio recorder. Just press record and type your notes, and Armadillo will link the recording to your written notes for your later reference. You can also add charts, images, spreadsheets, and more to notes, and customize the layout (armadilloapp.com).—LEAH YAMSHON



G-DRIVE SLIM

G-Technology recently launched a new collection of external storage devices, all equipped with USB 3.0, to accompany the latest Mac line. One model, the \$100 G-Drive slim, stands out for its thin design and portability—a handy companion to your new MacBook. This aluminum drive has 500GB of storage, is Time Machine-ready, and gets its power from a USB 3.0 port, so no additional AC power supply is needed (g-technology.com).—LEAH YAMSHON





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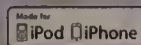
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Get Ready for iOS 6

We take a first look at Apple's latest iOS update before its fall arrival

BY SERENITY CALDWELL, LEX FRIEDMAN, AND LEAH YAMSHON

Mountain Lion may be getting all the attention these days, but there's no need for iPhone and iPad owners to feel left out—your OS update is coming soon.

During its Worldwide Developers Conference in June, Apple gave the world its first glance at iOS 6, the next major update to the company's mobile operating system. Continuing Apple's tradition of an annual iOS update, this latest version boasts plenty of new features and enhancements—more than 200, according to Apple. We can't possibly cover all of them here, but we have an overview of what to expect from iOS 6.

The Basics

You'll have to wait a bit before you can install iOS 6. Apple says it's not going to arrive until the fall, which could mean anytime between September 22 and December 20. (For the sake of comparison, iOS 5 shipped on October 12, 2011.)

When it does arrive, iOS 6 will be available as a free update, but it won't run on every device. Apple says it supports the



Bird's-eye View The rebuilt Maps app offers a flyover feature—3D models of major metropolitan areas.

apps require the faster processor and improved graphics of the two most recent models. From Apple's perspective, it's time

support Siri, Photo Streams for sharing photos, FaceTime, VIP lists and flagged mailboxes in Mail, and Reading List (for offline reading). The iPhone 4 also misses out on flyovers, turn-by-turn navigation, FaceTime over 3G, and Siri. The iPad 2 remains Siri-less.

What's Changed

Several built-in apps gain new capabilities in iOS 6, with one established app getting a complete overhaul.

Maps iOS 6's built-in mapping app has a new icon, but that's really just the tip of the iceberg. Apple has overhauled Maps, doing all the cartography itself. That means Google's mapping tools—which have been part of Apple's mobile operating system from the beginning—have gotten the boot in iOS 6.

Maps offers local search that's powered by more than 100 million business listings and integrated with Yelp for reviews and ratings. Maps can also show you where traffic is heavy, using anonymously generated user data as one of its sources for traffic conditions. Other new features include turn-by-turn navigation and the ability to give an estimated time of arrival, updated in real time with traffic data. Maps also integrates with Siri.

Flyover brings an Apple-built 3D model of major metropolitan areas to Maps. The vector-based maps make zooming in and out quick and painless. Tap a specific building to get an information card with more details from Yelp. You can switch to a 3D map mode to see wire-frame images of individual buildings, adjust camera angles, toggle between 2D and 3D, and more.

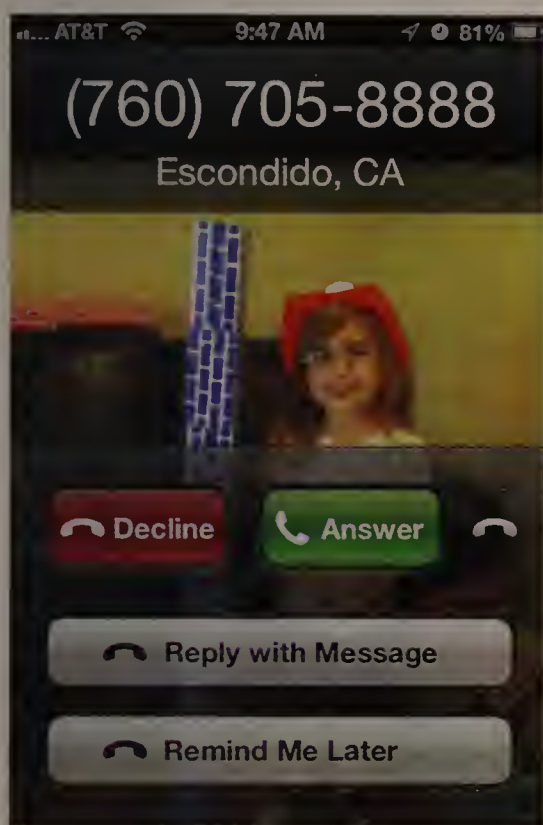
Siri The voice-driven personal assistant gets a lot smarter in iOS 6, gaining the

Continuing Apple's tradition of an annual update to its mobile OS, iOS 6 boasts more than 200 features and enhancements.

iPhone 3GS, iPhone 4, and iPhone 4S; the iPad 2 and third-generation iPad; and the fourth-generation iPod touch. Noticeably missing from that list is the original iPad. While it may seem surprising that a tablet that debuted only two years ago can't run iOS 6, it's really not—Apple hasn't sold that version of the iPad for a while. And a growing number of newly released iPad

for the original iPad to join devices like the iPhone 3G in the unsupported bin.

And just because a device will run iOS 6, don't expect it to support every feature we detail here. The iPhone 3GS gets left out of quite a few iOS 6 features: no flyover or turn-by-turn navigation features from the revamped Maps app (more on both of those in a bit), and it also doesn't



Call Me Maybe Send a prewritten message to reply to calls you can't answer; you can also remind yourself to call back later.

ability to give you sports scores and more-detailed restaurant information. It can also launch apps, and it lets you post to Facebook and Twitter. And you'll be able to do all this from a third-generation iPad, which joins the iPhone 4S among the devices that support Siri. (See "Siri's New Tricks" for more details.)

Phone With all the things your iPhone can do, it's easy to forget that first and foremost it's a phone. A new iOS 6 feature may remind you of that fact. When you get a call that you can't take at the moment, slide up an icon (similar to the camera icon that appears on iOS 5's lock screen) to reply with a prewritten message telling the caller you're unavailable; you can also remind yourself to call that person back.

FaceTime In iOS 6, Apple's video-chatting feature works over a cellular connection, not just via Wi-Fi—at least if you're using an iPhone 4S or a third-generation iPad. To bring FaceTime to cellular connections, Apple tweaked it to use less bandwidth; FaceTime is also a bit more robust at handling data dropouts. If you're worried about unplanned calls eating up your cellular data allotment, you can turn this feature off.

Siri's New Tricks

Siri learns a few new things with iOS 6, and it gets a new venue in which to show off its knowledge. Previously, Apple's voice-activated personal assistant could only respond to queries from iPhone 4S users. Now, third-generation iPad owners will be able to pepper Siri with questions once iOS 6 arrives in the fall. And Siri will be able to handle more types of questions than, too.

Sports Siri has apparently been studying the sports pages since its fall 2011 introduction, because now it can tell you the scores of last night's game if you ask. Siri can also answer questions about individual player statistics (**What is Joey Votto's batting average?**), standings (**Who is in first place in the American League West?**), and schedules (**When is the New York Giants' first game of the season?**). According to Apple, Siri knows about baseball, basketball, football, hockey, and soccer.

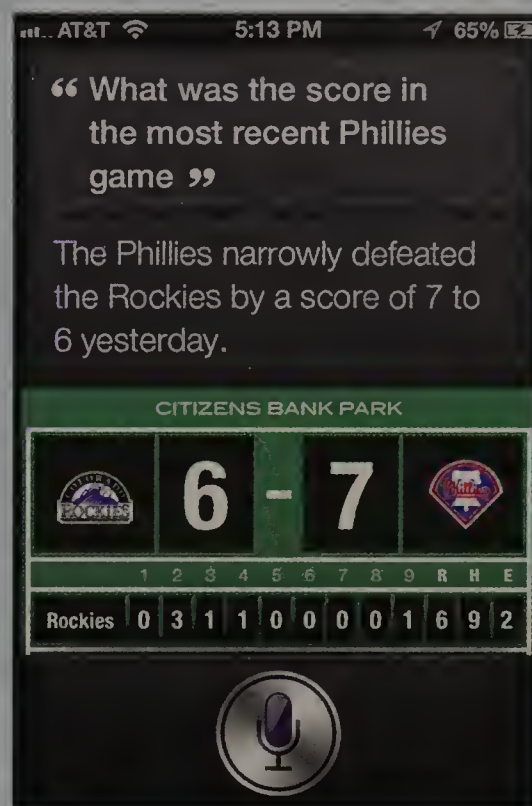
Restaurants Siri now includes more details when you look for eateries—results are sorted by Yelp rating and include average meal prices and restaurant types, hours, reservations (via Open Table), integrated Yelp reviews, and more.

Movies Asking Siri, in its beta form, for movie information could be as disappointing as watching sequels to *The Matrix*, but Apple says its voice assistant is now a movie buff. Ask it what movies are showing at a nearby theater, and Siri responds with titles, ratings, reviews, and integrated trailers from Rotten Tomatoes—all accessible within Siri. You can ask Siri questions about actors and directors as well.

Maps Like Siri, Maps gets an overhaul in iOS 6, so it makes sense that both apps now have strong ties to one another. Ask Siri how to get somewhere, and you immediately get turn-by-turn directions—even from the lock screen. You can ask Siri to repeat what it said, as well as ask where gas stations are along the way, what the traffic is like, how long until you get there, and every traveling kid's favorite question: "Are we there yet?"

Social Networks With iOS 6 adding Facebook integration alongside its Twitter tie-in, Siri can now update your status on either social network. If you link your friends' Twitter usernames to their Contacts entries, Siri automatically translates their real names into their handles as you dictate.

App Controls Tell Siri to launch an app and it'll do so, even if you're launching a third-party offering. On the new iPad, Siri can answer questions about weather and stocks, even though Apple hasn't ported its iPhone Weather and Stocks apps from the iPhone to the iPad—at least not yet.—LEX FRIEDMAN



Siri Knows the Score In iOS 6, Siri can tell you the scores of baseball, basketball, football, hockey, and soccer games.

In addition, Apple is unifying your Apple ID and phone number, so if someone sends a FaceTime message (or an iMessage text) to your number, it arrives on your iPad or Mac as well.

Safari Apple's mobile browser gains some Mountain Lion–driven features in iOS 6. Your mobile devices will be able to sync any open browser tabs with iCloud, making the sites you visit on your iPhone or iPad accessible on your Mac and vice versa. iOS 6's Safari also supports offline reading for webpages saved in Reading List, just as in Mountain Lion's browser.

Safari acquires the ability to upload photos and videos to websites that request them—a photo-sharing site, say. The mobile browser now supports full-screen mode when you're browsing in landscape.

Mail Look for the Mail app to gain a pair of Mountain Lion–style organizational improvements: flagged messages and VIPs. Users could flag messages in the past, but now you see all those messages in a folder. Mail also organizes VIP messages into a smart folder: Mark someone as a VIP, and you get a notification on the lock screen when that person's messages arrive.

Mail makes it easier to add photos or videos to your messages. Just tap and hold on the body of your message; video



iOS Friends Facebook iOS 6 features numerous Facebook tie-ins, including the ability to share photos, links, and locations.

and photo options appear in the Copy, Cut, And Paste popover menu.

Photo Streams Shared Photo Streams in iOS 6 allows you to easily share photos with friends. Choose the photos you'd like to share, select some friends, and you're done. Those friends receive a push notification, and the photos appear in an

album in the Photos app. Friends can also comment on your photos.

iTunes and App Store Apple has said that its stores for downloading music, media, and apps are getting a redesign, though we'll have to wait until iOS 6 arrives to see what that entails. We do know the changes include in-app downloads, which allow you to buy music and apps without leaving the app you're in, and a section for viewing your preview history, so you can buy the music, movies, and TV shows you've been perusing.

What's New

iOS 6 introduces some systemwide enhancements, as well as a new app.

Passbook That new app is Passbook, which Apple bills as a simple way to keep things like boarding passes, tickets, and affinity cards in one place. Arrive at a location where you need one of those cards—a Starbucks, say—and iOS detects it and brings up the appropriate pass on your lock screen. If you have a boarding pass stored on your iPhone, iOS can update it if there's a delay or gate change.

Facebook Integration iOS 5 added Twitter integration. iOS 6 is doing likewise with another social networking behemoth: It's adding Facebook tie-ins throughout the operating system. You can share photos,

Geofencing Alerts Come to Find My Friends



Soon you won't have to ask your friends, "Are you there yet?" Your iPhone will tell you on their behalf.

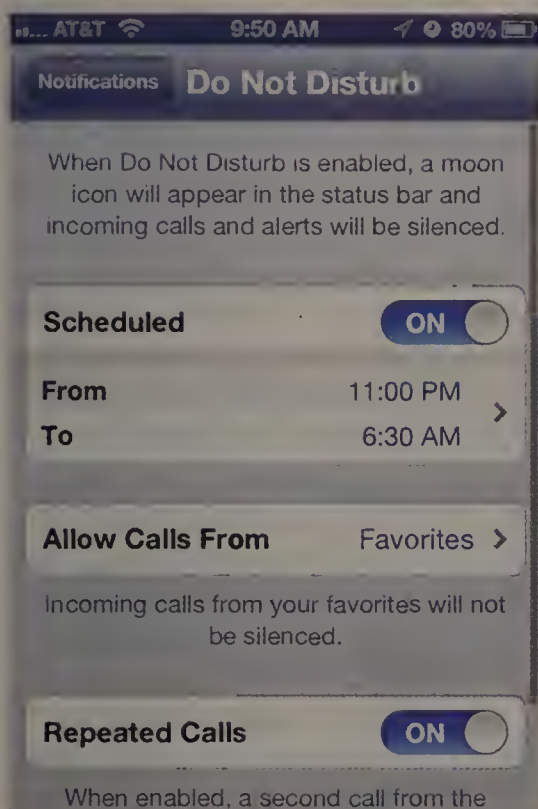
As part of Apple's iOS 6 overhaul, the company's Find My Friends app (macworld.com/7853) is set to add a new geofencing notification system. This lets you set up an alert for any of your Find My Friends contacts; when they leave or arrive at a given location, you receive an alert or a banner notification.

Like many parts of Find My Friends, this is one part creepy, two parts useful. On one hand, it's nice to offer people a way to check up on your journeys. For example, when I lived in California, I'd frequently make the drive from San Francisco to Los Angeles and back again to visit my folks. Once Find My Friends came out, I made my mother use the app rather than call me every few hours to check on my progress up or down the coast; with geofencing, she automatically received an alert when I finally reached my apartment. (And it's a lot easier to remember than sending a "Home safely" text message at 2 a.m. after you've been driving for six hours.)

Of course, like all location-aware services, this only works if your contacts are people you trust. Once you allow a friend to add you, they have access to your location and geofence alerts unless you remove them; given that, you may not want to allow everyone in your contacts list to follow you on Find My Friends. (If it's a trip or conference situation, try using Find My Friends' Temporary Events feature instead.)

Adding a geofence alert may also wear down both your battery and your friend's. Sure, it's nice to know when your friend arrives at the ballpark, but they may prefer sending you a text message to having their phone battery drained.

Potential uses and politics aside, these alerts are in the same vein as iOS 6's call-rejection features: They're yet another way for us to automate busywork messages rather than feel the obligation to text or call.—SERENITY CALDWELL



Stop Disturbances Do Not Disturb mutes notifications, texts, and other interruptions.

links, locations, iTunes and App Store items, and more via Facebook. And iOS 6 integrates Facebook directly into Notification Center; pull the latter down to post a new Facebook update or tweet.

As mentioned earlier, you can post to Facebook via Siri as well. Your Facebook friends' contact information and calendar events can also sync to your iOS device.

Do Not Disturb With the new Do Not Disturb option, your iOS device still receives push notifications, calls, and text messages, but they won't light up your screen or make a sound. For added control, you can let certain numbers make your phone ring even with Do Not Disturb enabled. If someone calls you back within three minutes after a muted call—implying that it's urgent—your phone rings.

Accessibility Features Apple intended iOS 6's Guided Access feature primarily for students with disabilities, but it's also a welcome addition for parents of young children. Guided Access lets you disable certain sections of the screen and turn off hardware buttons, touch, and motion.

In other accessibility enhancements, Apple's VoiceOver service now supports Maps, AssistiveTouch, and Zoom. Also, the company is working to create Bluetooth hearing aids for the iPhone 4S.

Four Easy-to-Miss iOS 6 Improvements

Not every new iOS feature gets its fair share of time in the spotlight. We may be focusing on Siri and Maps when it comes to Apple's next mobile operating system, but this fall's update promises a number of little changes that are each impressive in their own way. Here are three iOS enhancements you might have overlooked during Apple's iOS sneak peek.

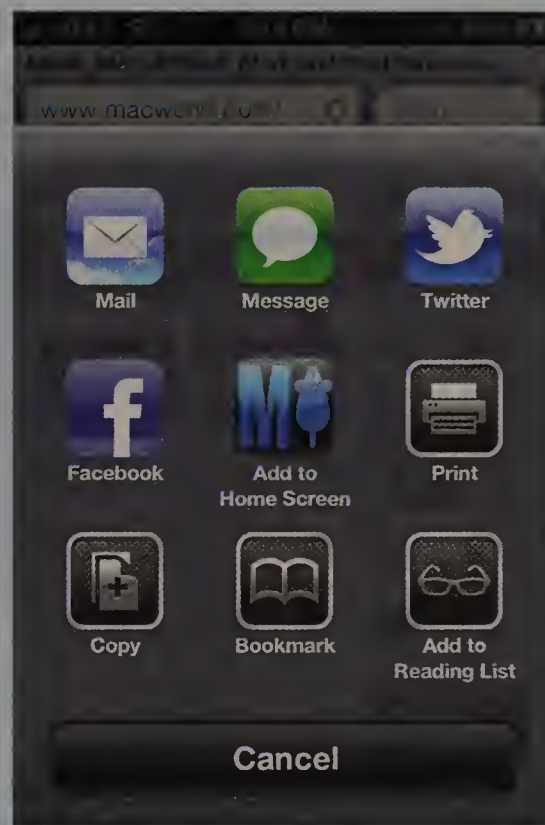
New Share Screen In iOS 5, when you tap to share a photo, you get a long list of sharing actions to choose from—posting to Twitter, sending an email or iMessage, and other options. iOS 6 adds Facebook sharing as an option—part of the systemwide Facebook integration planned for this update—along with sharing to various Chinese social networks. (That's a nod to how important the Chinese market has become to Apple.) But Apple decided against cramming more buttons into that panel. Instead, iOS 6 presents you with a new icon-based sharing screen. It uses icons to represent the apps and services with which you can share your content, and it looks quite a bit like the iPhone's home screen.

Spotlight Tweak If you have lots of apps, sometimes it's hard to figure out precisely which home screen they're located on. In iOS 6, Spotlight makes that a smidgen easier by listing the name of the folder in which a particular app is nestled when it appears in the search results.

Reminders Improvements Apple introduced the Reminders app in iOS 5, and it scores some helpful updates in iOS 6. Apple says you can now set location-based reminders from the iPad. Even better, you can manually enter addresses where you want reminders, a feature currently missing from Reminders; at present, you can only set reminders for locations linked to addresses in your existing contacts.

Also new in Reminders is the ability to reorder your tasks as desired. And Apple told developers that iOS 6 includes a new Reminders API, which should make it possible for third-party apps to integrate with the Reminders database. That means you can use Siri to set reminders, which will in turn appear in your third-party task-management app of choice.

Siri and Twitter We mentioned this in "Siri's New Tricks," but it bears repeating: If you link your friends' Twitter usernames to their Contacts entries, Siri automatically translates their real names into their Twitter handles as you dictate. So if I say, "Tweet 'Excellent dinner last night with Jason Snell, Dan Moren, and Serenity Caldwell,'" Siri automatically composes a tweet like "Excellent dinner last night with @jsnell, @dmoren, and @settern." —LEX FRIEDMAN



Time to Share iOS 6's sharing screen offers an icon-based view—not unlike the iPhone's home screen—in contrast with the list-based approach of iOS 5.

Prepaid Carriers Add to iPhone Options

BY DAN MOREN

Who needs contracts? Certainly not iPhone users anymore—as long as you're willing to pay a higher price up front.

A pair of prepaid wireless carriers—Cricket and Virgin Mobile—now offer wireless service for both the iPhone 4 and the iPhone 4S. And the monthly fees compare quite favorably to those of the iPhone's three major U.S. carriers.

Cricket's \$55 a month prepaid plan includes unlimited voice, SMS, and data—although that last category comes with an asterisk, thanks to the company's fair usage policy, which limits data to 2.3GB a month before data delivery gets throttled. Virgin Mobile offers 300 minutes for \$30 per month, 1200 minutes for \$40 per month, and unlimited minutes for \$50 per month. (Note that those prices reflect a \$5 discount that applies when you opt for autopay.) All three plans come with unlimited SMS and “unlimited” data (on which Virgin enforces a 2.5GB fair usage policy). You can add tethering—bringing your data total to 3.5GB—for an extra \$15 a month.

The downside? You pay a lot up front. Because neither carrier can count on getting your monthly payments over the life of a contract, you pay an unsubsidized price on the iPhone. A 16GB iPhone 4S costs you \$650 from Virgin; Cricket charges \$500. (The 8GB iPhone 4 sets you back \$550 and \$400 from Virgin and Cricket, respectively.) Of course, as our colleagues at *PCWorld* demonstrate in the chart above, you can still save money over a two-year span by choosing the prepaid option.

There's another aspect to consider, though, when weighing whether to opt for a prepaid iPhone plan: coverage. As a Sprint subsidiary, Virgin Mobile uses Sprint's network in the United States, so nationwide access is available, but it tends to be spotty outside urban areas. Cricket is not only smaller than major carriers, but also smaller than some

How Much Will You Pay?

You'll pay more up front for an unsubsidized iPhone on a prepaid plan, but you could save money over the life of the two-year contract required for a subsidized phone

	AT&T	CRICKET	SPRINT	VERIZON	VIRGIN MOBILE
Phone cost ¹	\$199	\$500	\$199	\$199	\$650
Monthly plan ²	\$60	\$55	\$80	\$80	\$30
Cost over two years	\$1639	\$1820	\$2119	\$2119	\$1370

Source: *PCWorld*. ¹Phone cost assumes purchase of a 16GB iPhone 4S. ²Monthly plan cost is for the least expensive option for each carrier.

regional ones; it provides much of its nationwide service via agreements with companies like Sprint and MetroPCS,

so coverage can be unpredictable outside metropolitan areas, particularly in the middle of the country.

Share the Data with Verizon's New Shared Plans

Families who use a number of data-intensive devices could get a break on monthly charges, thanks to the shared data plans Verizon launched in late June. Verizon's new plans feature unlimited minutes and unlimited texting, with charges differing mainly based on the amount of data shared between devices. You can have up to ten devices on a single account, from any mix of basic (read: nonsmart) phones, smartphones, tablets, and other devices, such as USB modems.

You still have to pay a flat monthly line-access fee per device, with the exact amount depending on the nature of the device: \$30 for basic phones, \$40 for smartphones, \$10 for tablets, and \$20 for nontablet devices.

Data plans start at 1GB for \$50 per month, rising to 2GB for \$60, 4GB for \$70, 6GB for \$80, 8GB for \$90, and 10GB for \$100. On the upside, you now get tethering with your data plan for free, instead of having to pay an extra \$20 per month. To help customers make a decision, Verizon is providing an online data calculator at macworld.com/7852, where you can enter the types of devices you use and then get a suggested data plan.

People who just use tablets or other data devices such as notebooks, computers, and USB modems can purchase data-only plans with the same monthly access fees but slightly cheaper data allotments, starting at 4GB for \$30 per month, and going up \$10 for every additional 2GB.

In addition, Verizon is offering two Share Everything plans for basic phones: one with 700 minutes of talk time for \$40 per month and one with unlimited minutes, unlimited texting, and 300MB of shared data for \$70 a month.

While Verizon customers don't have to sign up for the new plans, the carrier is clearly pushing users toward them—existing customers can switch to the plan without paying a fee or extending contract terms. Users who currently have unlimited data plans with Verizon lose that option if they switch to the new plans.

The emphasis on data over voice minutes marks a shift for the entire wireless carrier industry. Data, not talk time, has become the most valuable commodity for mobile device users and carriers alike. AT&T executives also mentioned recently that the company would be investigating shared data plans.—DAN MOREN

iPads on Hand to Aid Travelers at Select Airports

BY PHILIP MICHAELS

The next time you're waiting to catch a flight, an iPad could be on hand to help you pass the time—if your flight departs from a terminal where restaurant operator OTG does business.

Over the summer, OTG began deploying more than 7000 iPads at three airports. Travelers at New York's LaGuardia Airport, the Minneapolis-St. Paul International Airport, and the Toronto Pearson International Airport will soon be able to use the tablets to order food at OTG's eateries, check their flight status, surf the Web, and otherwise unwind before boarding their flights.

OTG has set up iPads in both the restaurants it operates and the hold areas around gates. A visual menu lets users order food from OTG's restaurants via the iPads, with orders delivered in 15 minutes or less. The OTG-installed iPads also allow travelers to check on flight information, includ-



Preflight Prep Restaurant operator OTG has installed iPads at Terminal D in New York's LaGuardia Airport.

ing the status of a flight and the weather at your final destination. OTG includes preloaded games and news apps. The iPad stations also provide outlets and USB ports for charging your own electronic devices.

"We want to be able to give you the things you need to make the experience more enjoyable," says Albert Lee, OTG's chief technology officer.

The initial rollout could just be the start. With 150 restaurants spread out across 10 North American airports, the sky's the limit for where you'll find an OTG-backed iPad installation.

SPOTLIGHT ON IPAD ACCESSORIES

Apple iPad Smart Case

Your iPad is getting some backing from Apple in the form of the iPad Smart Case (macworld.com/7844). Like the Smart Cover it replaces (macworld.com/7055), the Smart Case folds up into a stand and automatically puts your iPad to sleep and wakes it as you close and open the cover. But unlike the Smart Cover, this \$49 iPad accessory protects the back of your tablet as well as the front. The polyurethane Smart Case comes in dark gray, light gray, blue, pink, green, and (Product) red; it doesn't have a leather option, but you can get custom laser engraving on the back of the case if you order it from Apple's online store.—LEX FRIEDMAN



What's New at the App Store



Substantial Reeder Update Brings New Interface, Gestures

The latest incarnation of Silvio Rizzi's \$3 Reeder for iPhone (macworld.com/7845) gets a drastic rebuild that introduces the ability to manage Google Reader feeds. An interface overhaul changes the way articles are laid out, and a Readability shortcut gets a more prominent location. Version 3.0 also places a much bigger focus on using gestures to navigate through articles with the RSS reader.—DAN MOREN



OmniPlan Comes to the iPad

With the release of OmniPlan for the iPad (macworld.com/7846), the Omni Group has completed its two-year effort to develop iPad versions of its core apps. The iPad version of the planning and task-management app offers interactive Gantt charts, syncing, and change tracking, among other features. The \$50 app can work as a stand-alone app or in conjunction with the Mac version of OmniPlan (macworld.com/a/1164630).

—JOEL MATHIS



Any.do To-Do List App Makes iOS Debut

One of the rare apps that started life on the Android platform before coming to iOS, Any.do 1.2.2 (macworld.com/7847) has brought its approach to managing to-do lists to the iPhone. Users can manage their lists with gestures, pulling down to create new tasks or swiping across tasks to mark them as completed. Any.do features autocompletion suggestions for when you type in tasks; you can also enter tasks through dictation. Any.do is a free download.—LEX FRIEDMAN






APP GUIDE

Software for Your iPhone, iPod Touch, and iPad

Ski Safari

GAMES Great gameplay is enough to get you started with an iOS game, but it's the evolving challenges that

keep you coming back for more. Ski Safari delivers on both counts. The side-scrolling casual game puts you in the ski boots of a mountaineer trying to stay one step ahead of an onrushing avalanche: Your mission is to survive as long as possible, performing flips, collecting coins, and picking up creatures like penguins and yetis along the way. Mini-challenges such as performing a triple backflip or hitching a ride on an eagle increase your bonus points and keep your interest in Ski Safari from melting away.—**PHILIP MICHAELS**

iPhone/iPad |      \$1; Defiant Development



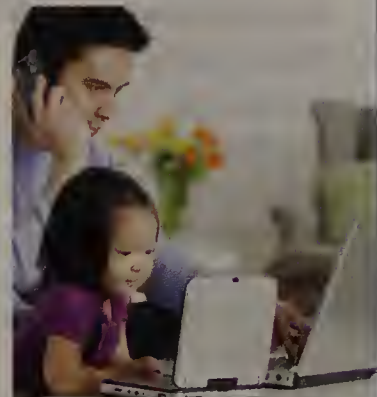
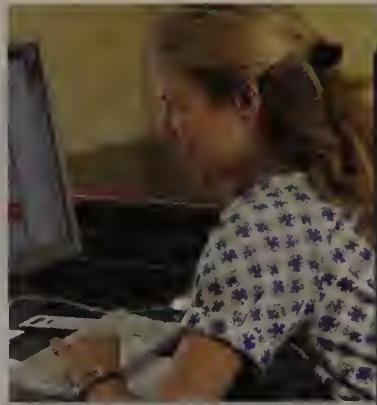
Maplets 2.4.1

REFERENCE Maplets boldly goes where the built-in Maps app doesn't—to national parks, stadiums, city centers, airports, and more. The app lets you access an extensive library of maps, which you can download at no additional cost for offline use when your travels take you off the beaten path (and away from network connectivity). Organizational features like folders for grouping together similar maps make Maplets ideal for trip planning. The maps don't perfectly fit the screen of your iOS device, but you can home in on details by zooming and panning.

—**PHILIP MICHAELS**

iPhone/iPad |                       

Mac[®] computers can do just about anything.



Now, they can even run without power.

Introducing the reinvention of backup power — the APC Back-UPS: unsurpassed protection for iMac computers and more.

Reliable power backup for 24/7 availability

Whether creating digital projects, updating your Facebook status, or working furiously to meet a deadline, you depend on your iMac[®] every day, all day. That's why APC[™] by Schneider Electric[™] has designed battery backup units that protect that uninterrupted availability you expect from your iMac. Introducing the reinvention of backup power protection: the APC Back-UPS[™]!

Energy-efficient protection for peace of mind

When the power goes out, our Back-UPS units go to work. They instantly switch your iMac to emergency power, allowing you to work through brief power outages or safely shut down so you won't lose valuable files. They also feature surge outlets to safeguard your electronics and data from "dirty" power and damaging power surges — even lightning. Plus, their energy-efficient design reduces electricity use, so you start saving money the minute you plug in a Back-UPS unit. And power-saving outlets automatically shut off power to unused devices when your iMac is turned off or in standby, eliminating wasteful electricity drains.

Trusted insurance for what matters most

Our units protect your iMac and much more, including MacBook[®] computers wired and wireless networks, DVRs, gaming consoles, and external storage devices. APC Back-UPS is the trusted insurance you need to stay up and running and protected from unpredictable power and energy waste!



Keep your electronics up and your energy use down!

Back-UPS models are available with the features and runtime capacity that best suit your application, and many models have been designed with power-saving features to reduce costs.

The High-performance Back-UPS Pro Series

High-performance Back-UPS Pro units deliver cost-cutting, energy-efficient features. Power-saving outlets automatically shut off power to unused devices when your computer is turned off or is in standby, eliminating wasteful electricity drains. (BR700G shown above)

The Energy-efficient ES 750G

The Back-UPS ES 750G boasts innovative power-saving outlets, which automatically shut off power to unused devices when your computer is turned off or is in standby, eliminating wasteful electricity drains.

- 10 Outlets
- 750 VA/450 Watts
- 70 Minutes Maximum Runtime
- Coax and Telephone/Network Surge Protection



The Best-value ES 550G

The Back-UPS ES 550 uses an ultra-efficient design that consumes less power during normal operation than any other battery backup in its class, saving you money on your electricity bill.

- 8 Outlets
- 550 VA/330 Watts
- 43 minutes maximum runtime
- Telephone Surge Protection




Power up to **WIN** one of seven APC BR700G Battery Back-UPS units (a \$130 value)!

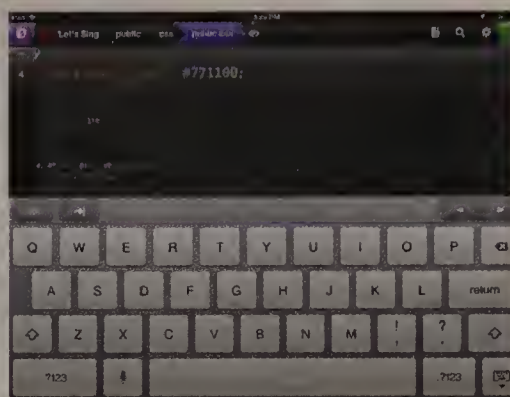
Visit www.apc.com/promo Key Code p925v • Call 888-289-APCC 4966 • Fax 401-788-2797

APC[™]


by Schneider Electric

Timeline World War 2 with Robert MacNeil 1.0.1

EDUCATION Other historical apps package text and photos in a pretty timeline, but Timeline World War 2 brings all-important context into the picture. Each entry includes a tappable map icon to show you where key events took place. Some of the included newsreels let you choose between the original audio and present-day narration that adds perspective to what you're watching. —**PHILIP MICHAELS**
iPad | ; \$10; Ballista Media





Diet Coda 1.0.4



PRODUCTIVITY Few apps are better suited to updating a website from your iPad than Diet Coda, the iOS companion to Panic Software's Coda 2 code editor (macworld.com/a/1166943). Connecting to a site gives you a full graphical listing of all files and folders that's easy to navigate. Diet Coda also offers an integrated text and code editor that includes a Super Loupe feature for magnifying specified lines of code. —**LEX FRIEDMAN**
iPad | ; \$20; Panic

APP GEMS

Mobile Payment Apps

 **Square Card Reader**  Square stays in charge of the mobile processing market (macworld.com/7848).

We also like:

 **Intuit GoPayment Credit Card Terminal**  macworld.com/7849

 **Sail Payments**  macworld.com/7850

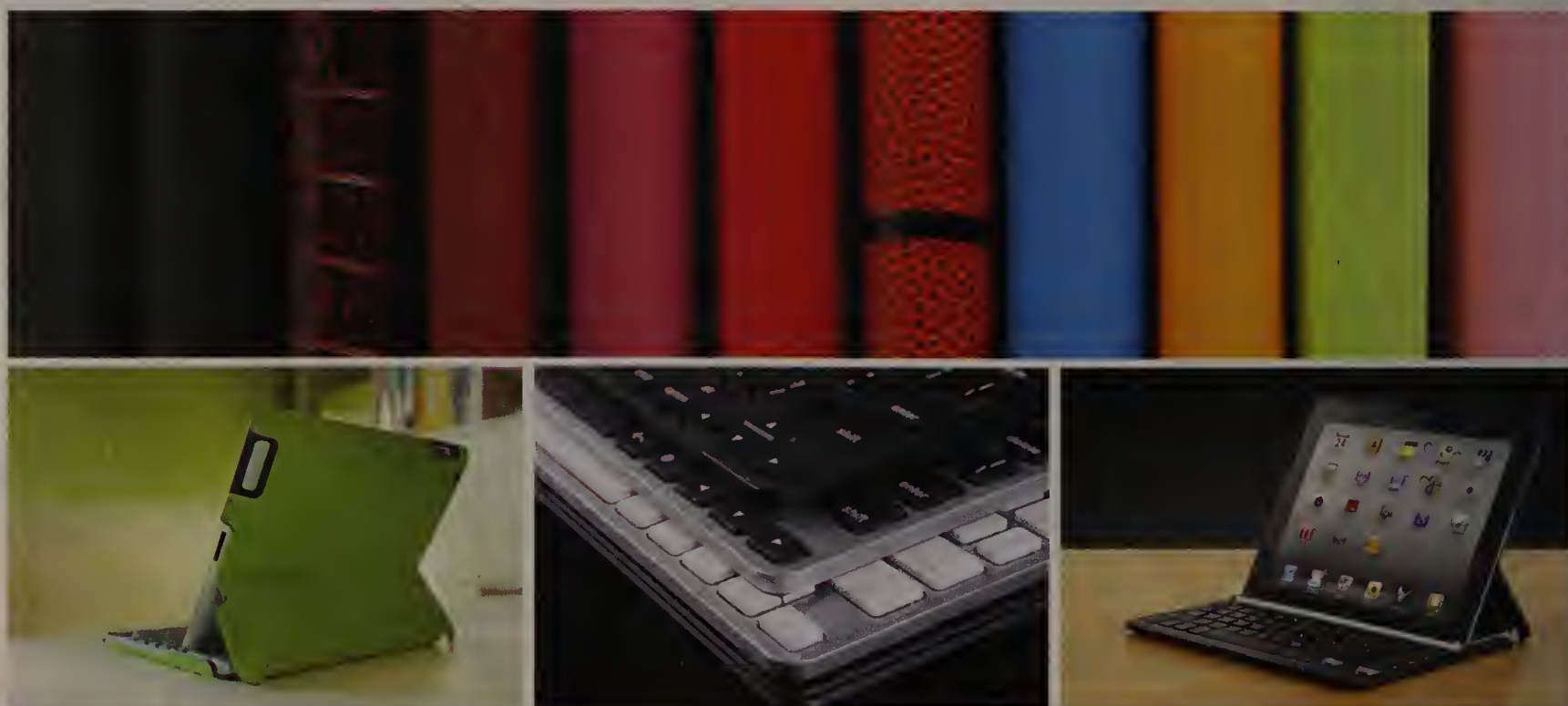
Find other business apps at macworld.com/7851.

App Guide

AppGuide.com features our complete database of iOS app reviews.

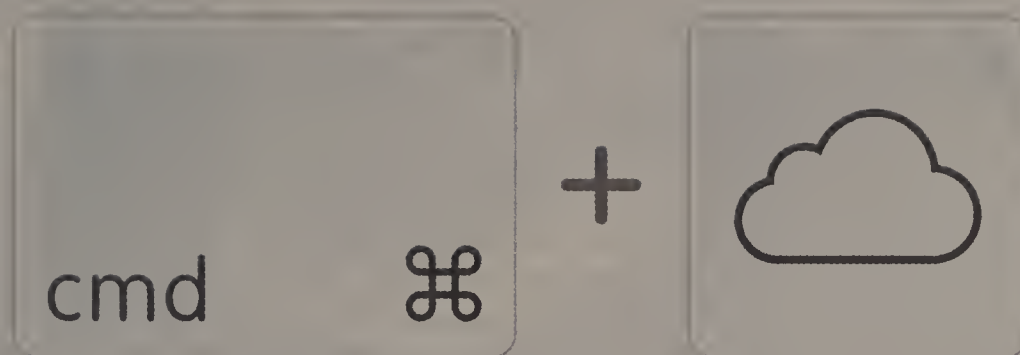


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33 DIFFERENT COMBINATIONS | BUILT IN STAND | REMOVABLE KEYBOARD | WWW.ZAGG.COM

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- ✓ Sync Multiple Computers
- ✓ Access Files Anywhere
- ✓ 256 Bit Secure Encryption



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Try it Free!

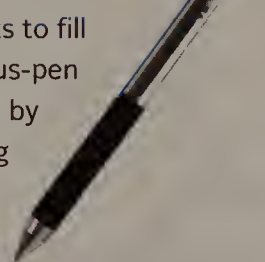
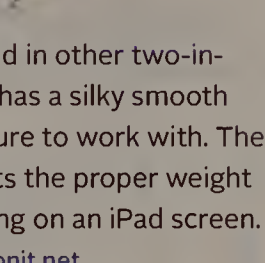


REVIEWS

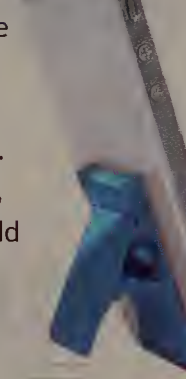
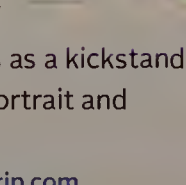
Accessories and Add-ons
for Your iOS Devices

HARDWARE

Adonit Jot Flip ▶

Adonit's Jot Flip looks to fill the need for the stylus-pen combo still treasured by those users who cling to paper and pen. Rather than settling for the cheap-feeling ballpoint found in other two-in-one models, the Flip has a silky smooth pen tip that's a pleasure to work with. The Flip's body also boasts the proper weight and balance for writing on an iPad screen.   \$40; Adonit; adonit.net

Flygrip ▶

Navigating your iPhone 4 or 4S with a single hand becomes a little easier with the Flygrip. A little piece of plastic, the Flygrip lets you hold your iPhone in a more comfortable, secure manner, offering your grip a greater range of motion. It also doubles as a kickstand that's usable in both portrait and landscape modes.   \$30; Flygrip; flygrip.com

G-Form Extreme Grid for iPhone 4 and 4S ▶

Available in an array of colors (including solid black or black with yellow, blue, green, red, gray, pink, white, or purple), the Extreme Grid covers your iPhone's back, sides, and corners. G-Form's Reactive Protection Technology, a composite blend of proprietary materials, is soft and malleable to the touch, but tightens on impact to form a protective


shield. Getting your iPhone into this interesting-looking case isn't too much of a bother, and the phone is easy to use when it's tucked inside, making for a nice blend of convenience and protection.

 \$40; G-Form; g-form.com

Incipio Dotties ▶

You can put your own stamp on your iPhone 4 or 4S with Incipio's Dotties. The silicone soft-shell case features a customizable back with room for attachable silicone dots that you can

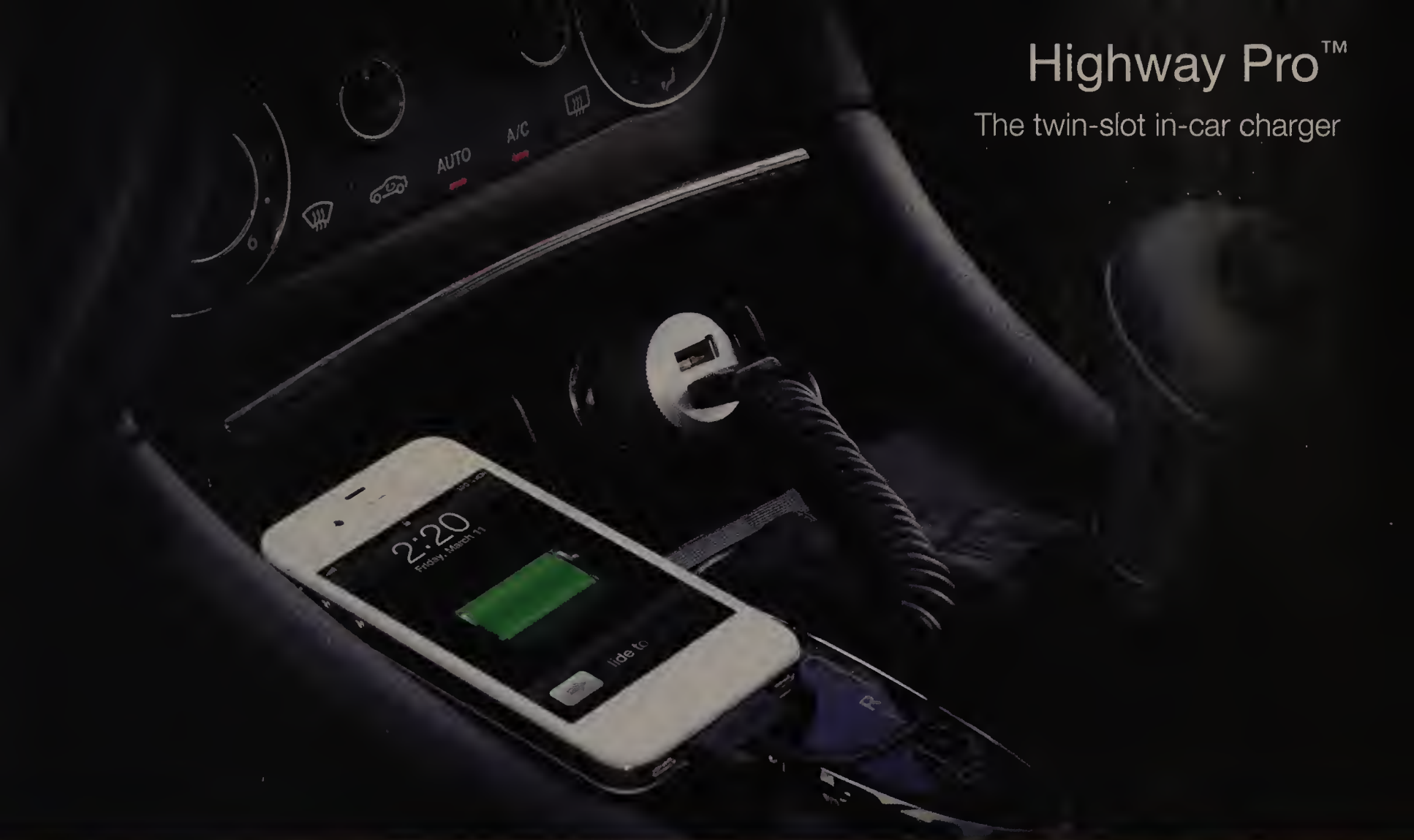
arrange in any pattern you choose. The Dotties case comes in eight different main body colors, each with its own set of colored dots. The case is a little bulkier than some models and it surrounds the lower half of the home button pretty closely. But it offers solid protection with a touch of whimsy.

 \$30; Incipio; www.incipio.com

iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE ¹	DISPLAY	PERFORMANCE	FIND CODE ²
 iPad ³	16GB	Wi-Fi,  ; 4G, 	Wi-Fi, \$499; 4G, \$629	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7696 Wi-Fi 7699 4G
	32GB	Wi-Fi,  ; 4G, 	Wi-Fi, \$599; 4G, \$729	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7697 Wi-Fi 7700 4G
	64GB	Wi-Fi,  ; 4G, 	Wi-Fi, \$699; 4G, \$829	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7698 Wi-Fi 7701 4G
	16GB (iPad 2)	Wi-Fi,  ; 3G, 	Wi-Fi, \$399; 3G, \$529	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7030 Wi-Fi 7031 3G
 iPhone 3GS, 4, and 4S	8GB 3GS ⁴		free	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talk time	6255
	8GB 4 ⁵		\$99	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	7516 GSM 7520 CDMA
	16GB 4S ⁵		\$199	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7517
	32GB 4S ⁵		\$299	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7518
	64GB 4S ⁵		\$399	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7519
 iPod Touch	8GB		\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB		\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB		\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555

¹All prices are Apple's prices. ²In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ³There are separate Wi-Fi + 4G iPad models for AT&T's network and for Verizon's. This phone is available only with an AT&T plan. ⁴These models are available with an AT&T, Sprint, or Verizon plan.



Highway Pro™

The twin-slot in-car charger

Available from:
B&H | DataVision | Smartphone Experts |
Adorama | MobileCity Online

just | mobile®



Gum Plus™

The high-capacity, high-style backup battery



HIDDEN TREASURES

We find the **software gems**
you can't afford to miss

It's a great time to be a Mac user. Yes, Macs are great, but what makes a computer useful is the software that's available for it. And now, more than ever, the Mac boasts an abundance of free and low-cost software. To help you figure out which ones are worth your time, we researched and tested dozens of free and low-cost Mac programs, and we feature the ones worth writing about in the following pages. Since the parade of new programs never ends, be sure to check out our regular *Mac Gems* section in each issue every month, our Mac Gems blog (macworld.com/macgems) online, and our Twitter feed (twitter.com/macgems).

ILLUSTRATION BY RYAN SNOOK

System Enhancements

Make your Mac even easier to use

ORGANIZATION

Gemini 1.1

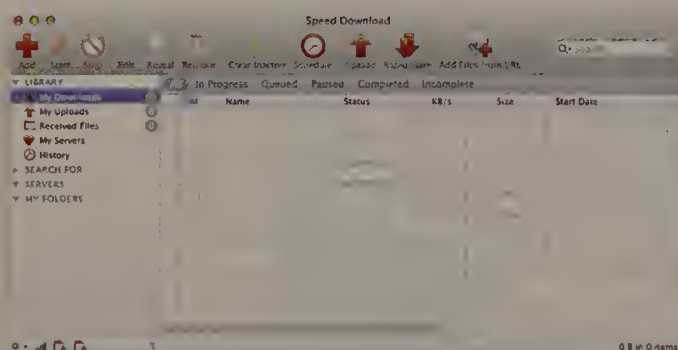
Gemini 1.1 (★★★★) makes finding duplicate files on your Mac a bit easier—and a bit more fun. Gemini combs through your folders, spitting out snarky phrases while you wait. Once it has scanned your files, the app morphs into an iTunes-esque interface, showing you where your dupes are hiding. Gemini's sniffer engine matches the content of the duplicate rather than the filename alone; if you've named the same picture with two different titles, the app will tie them together as duplicates (\$10; MacPaw; macpaw.com).—SERENITY CALDWELL



UTILITIES

Speed Download 5.3

In a sense, Speed Download (★★★★½) is really two applications in one—a simple download manager and a more complex download and FTP manager—and the app allows you to switch between the two. Speed Download can download individual files, upload files, autoresume downloads, and schedule future downloads. When running in its more advanced mode, Speed Download supports one-click uploads to RapidShare; it also



displays download and upload limits and supports multiple servers. The simpler mode is more than powerful enough for typical users interested in downloading large files or a large quantity of files (\$25; YazSoft; yazsoft.com).

—BRENDAN WILHIDE

DISPLAYS

DESKTOP TIDY 1.0

I like my desktop neat and tidy. I like it even better when things get cleaned up without my having to lift a finger. Desktop Tidy (★★★★) does just that—this handy utility tidies up your Mac's desktop, keeping it clean and free of clutter. It stores all desktop files and folders in a Shadow Desktop, which you can access from the menu bar or from the Finder. Desktop Tidy's icon sits in your menu bar and quietly gets to work at scheduled intervals—as often as every minute or as infrequently as every seven days. It even organizes your desktop items by file type, which makes finding and renaming files easy (\$5; Lightpillar; lightpillar.com).—LEAH YAMSHON

PRODUCTIVITY

Klammer 2.1

Klammer (★★★★½) is a bit of a one-trick pony, but it performs a pretty good trick. When you come across a winmail.dat or MSG attachment, which most email apps (except for Microsoft Outlook) can't read, you can open it in Klammer and see what's in the file. Klammer also offers you the option of exporting the file in a format that most email applications can read and import. An optional \$10 in-app purchase groups batches of these attachments and, instead of converting them one at a time, allows you to convert them all in one shot (\$6; Kupon.BG; klammer.kupon-bg.com).—JEFFERY BATTERSBY



ORGANIZATION

FILEXAMINER 2.8

You might not need it today, but the next time you have a problem opening or deleting a file because of issues with permissions, or need to peek at its hidden attributes, you'll be glad that FileXaminer (★★★★) is in your toolbox. FileXaminer is the Finder's Get Info command on steroids, adding file management features including Super Delete (which grants admin access for deleting items) and Force Empty Trash. Most of the features available in Get Info appear when you open a file or folder with FileXaminer, with the addition of options for editing permissions, dates, and icons. You have complete control of permissions at the Unix file-system level, as well as the ability to change creation and modification dates and to set user and group ID bits (\$10; Gideon Softworks; gideonsoftworks.com).—SHELLY BRISBIN





ORGANIZATION

A Better Finder Attributes 5.14

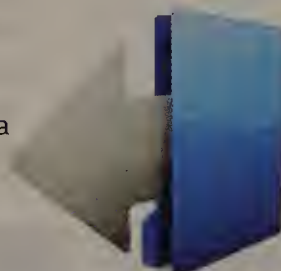
A Better Finder Attributes (★★★★) is designed to change certain Finder attributes on your files, like creation or modification dates. You simply drag files or folders onto the application window, select the change you want to make from a pop-up menu, enter the settings for that change, and click a button. The application can perform its operations on all of a

folder's contents, including the subfolders and files it contains. You can create droplets that apply specific settings, so you can reuse those attributes easily. This is a well-designed application for these limited tasks, simplifying operations that would be hard to perform or time-consuming (15; Public Space; publicspace.net).—KIRK MCELHEARN

ORGANIZATION

SideFolders 1.6

SideFolders 1.6 (★★★★½) provides a slide-out panel that combines a Finder window's sidebar, the Apple menu's Recent Items list, and the capability of creating your own lists so you can have any folder and document hierarchy you want in the panel without changing the locations of the actual folders and documents. A double-click on an item opens it without requiring that you make a trip to the Finder and drill down through subfolders; even better, you can drag a file from the resizable panel directly into a document you're working on to embed it there, if the app supports that file type. This latest version supports Quick Look, so you'll be able to check out the document before you drag it anywhere (\$5; code529; code529.com).—SHARON ZARDETTO



PRODUCTIVITY

CommandQ 1.04



I occasionally press ⌘-Q by accident and end up quitting apps like iChat, my Twitter client, or my RSS reader.

Luckily, CommandQ (★★★★½) steps in to protect those of us with fat fingers. Its actions are simple: It blocks the ⌘-Q shortcut, displaying a bezel with a progress bar on screen. You have to keep holding the ⌘ and Q keys until the progress bar reaches the end to quit an app. In the app's preferences, you can set this time from a half second to two seconds. You can also set your own Quit keystroke, which is necessary if you're not using a QWERTY keyboard (\$8; ClickOnTyler; clickontyler.com).—KIRK MCELHEARN

PRODUCTIVITY

TypingStats 1.1.1

Designed to help you improve your typing skills, TypingStats (★★★★½) sits in your menu bar and tracks everything you type. The default settings are words per minute and keystrokes, but TypingStats has customizable tracking controls (\$1; Exurion; exurion.com).—BRENDAN WILHIDE

DASHBOARD

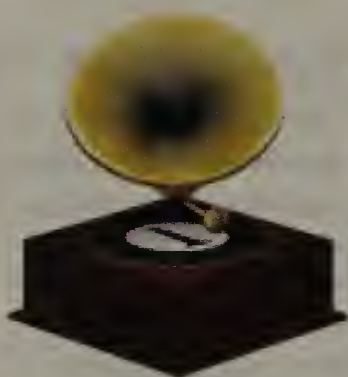
LAUNCHMAGIC 4.0.2

LaunchMagic (★★★★) is an app launcher and organizer that resides in the Finder until you press your hotkey combination, which opens your personalized Launch Center. This interface displays all your apps as a full-screen icon overlay; search for an app in the search bar, and then click its icon to launch it. LaunchMagic also provides its own dock, which gives you quick access to your most-used files, and a blaster, which lets you use a hotkey to launch specific apps. The app's large icons and menu access help it stand out in the crowded app-launcher field (\$30; Chronos; chronosnet.com).—BRENDAN WILHIDE



Audio and Video

Get the most out of your media



AUDIO

READOMATOR 1.0.2

Instapaper has been a favorite app among iOS users since it first launched in 2008. Now Instapaper fans have Readomator (★★★★½), a client that works with iTunes to convert your saved Instapaper articles into podcasts. Launch Readomator and sign in with your Instapaper account, and you're greeted with a list of your saved Instapaper articles. Turn the podcast switch on, and iTunes begins converting your saved articles into podcasts. The podcast quality is surprisingly good, though getting used to the cadence of the automated voice took a while. Play around with the settings in Readomator's preferences until you find a voice and speed that works for you (\$4; Gray Goo Labs; graygoolabs.com).—KARISSA BELL



MUSIC

TrackSift 1.2.1

TrackSift (★★★★) helps you take a broom and dustpan to the far reaches of your digital music collection. You can trash track listings that point to now-nonexistent files, sweep away empty playlists, and remove needless genres from your library's listings by shifting tracks en masse into another genre. The Find Tracks Without feature can locate tracks with missing info, such as lyrics or album art, so you can complete it. TrackSift can also group tracks into playlists (\$2; Doug Adams; dougscripts.com).—NATHAN ALDERMAN



MUSIC

Enqueue 1.0.1

Since iTunes doesn't support FLAC, the open-source lossless audio format used for many live music downloads and high-resolution album releases, I've had to resort to a separate player just for those files. Enqueue (★★★★) is a full-fledged music playback application, similar in look and feel to iTunes. In fact, it can read and play the contents of your iTunes library—in addition to FLAC, Enqueue can play MP3, AAC, Ogg Vorbis, WAV, AIFF, and Musepack audio files. Enqueue doesn't actually move any files around. It just plays music in its existing location—similar to how iTunes works when you uncheck the Copy Files To iTunes Media Folder When Adding To Library option in iTunes' Advanced preferences. Enqueue also offers a Mini Player that you can use to minimize the app's footprint on your screen real estate. With global hotkey control, multiple view options, and more, Enqueue is a welcome addition to the desktops of Mac-based music lovers (\$10; Kevin Dang; enqueueapp.com).—JONATHAN SEFF

MUSIC

STREAMBOX 4.2



There's a lot to like about Streambox (★★★★½), a full-featured Mac client for the Pandora streaming audio service. The app gives you access to several of Pandora's features, such as the ability to give a song a thumbs-up or thumbs-down, skip forward and backward (up to Pandora's own limits), view a list of song attributes, and create stations based on a song or artist. Streambox resides in your menu bar as an unobtrusive P icon, and you can configure it to use the media keys on your keyboard. In addition, it integrates nicely with other apps and services like Growl, Last.fm, and even iTunes (\$8; Francisco Garza; throwbackapp.com).—DAN MOREN



AUDIO

beQuiet 2.4

A refreshingly simple utility, beQuiet (🔇🔇🔇) ensures that your computer's external speakers stay quiet when you want them to, no matter what. Just launch the app and it immediately mutes your Mac's external speakers. Better yet, they remain

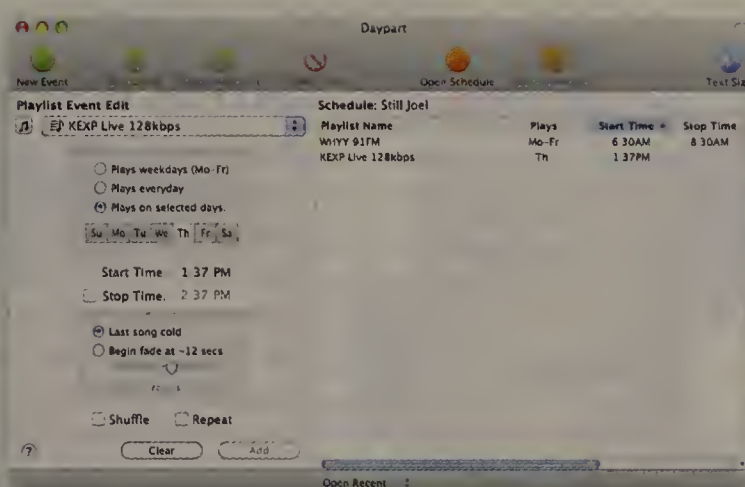
muted, even if you launch another application or your headphones come unplugged. If you do have headphones plugged in, however, beQuiet maintains your headphone audio and allows you to freely adjust it. An icon floating on your desktop lets you toggle beQuiet on and off; you can also opt to hide the icon and keep the program running in the background. This tool is useful for computer labs in schools, libraries, and other public places where computers are shared and a quiet environment is necessary (\$5; [dragonBTV](#); [mac.softpedia.com](#)).—KARISSA BELL



VIDEO

Looky 1.0.0

If you like to spot-check your teeth, or if coworkers often sneak up behind you, Looky (👁️👁️👁️) is an unobtrusive and easy-to-trigger way to quickly see whatever your Mac's camera can see. Click the eyeball icon in your menu bar to get the Looky window, showing your smiling face along with whatever is behind you. The window loads quickly enough, though it takes a moment for the Mac's iSight or FaceTime camera to turn on and the video to appear. Still, the process is quicker than launching a built-in app like Photo Booth (\$1; Binary Formations; [binaryformations.com](#)).—LEX FRIEDMAN



MUSIC

DAYPART 2.1.1

Daypart (🔊🔊🔊), a desktop app that lets you schedule play times for your iTunes playlists, is the "set it and forget it" app of the Mac music universe. Schedule when you want certain iTunes playlists to play, including regular playlists, smart playlists, and Genius playlists (the variety means you can also schedule when you want online radio stations to begin playing during the day). Then choose the days and times when you want the playlists to start and stop; you have the option of letting the last song play to completion, or fade out as its scheduled playing time ends. Mostly, Daypart is an easy and effective way of playing the music you want when you want, without too much hassle (\$20; Doug's Apple Scripts; [dougscripts.com](#)).—JOEL MATHIS

VIDEO

Screeny 2.0.1

Use Screeny (🖱️🖱️🖱️) to take screen-casts and share your screen with others. Launch the app to see a



resizable screen-capture interface and a recording widget. You can resize the interface to almost any size, focus it on an open window, or lock it to a specific ratio. The widget has controls for starting and stopping a recording, taking a still image, switching from a screencast to your computer's built-in camera, or adding a picture-in-picture video image to a screencast. It'd be nice to have more exporting options (videos are saved as QuickTime files, while stills are PNGs), as well as the ability to set a custom folder for recordings, choose your audio source, and select colors for the multicolored picture-in-picture window and to highlight mouse clicks. But for basics, Screeny may be what you're looking for (\$15; Daeo Corp Software; [drewwilson.com](#)).—SERENITY CALDWELL

Productivity

When it's time to get down to work, you can count on these programs



ORGANIZATION

Stock Keeper 1.1.4

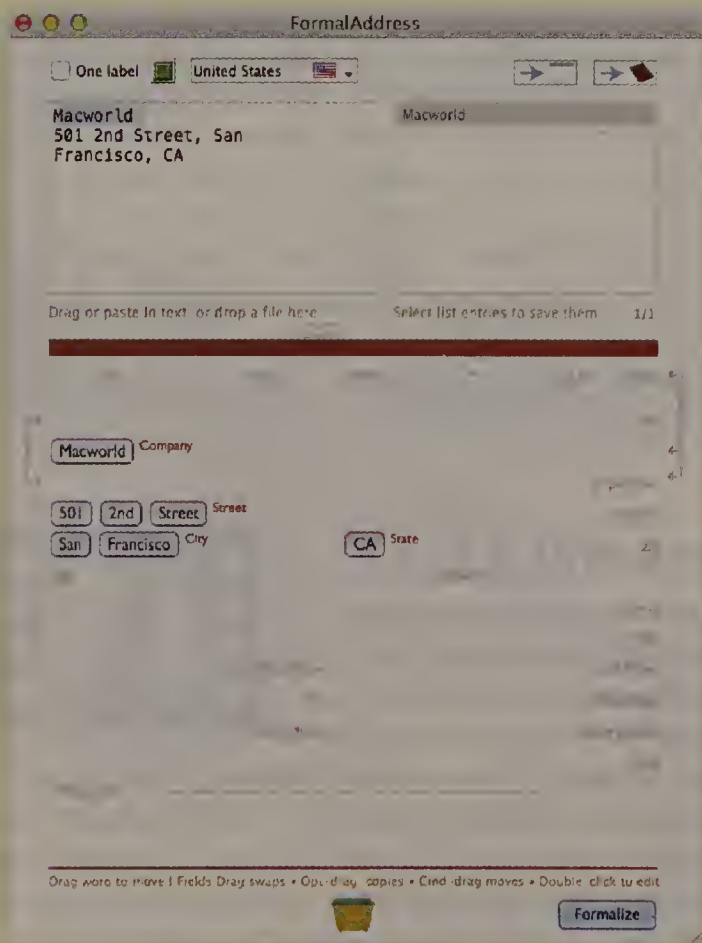
Stock Keeper (★★★★½) offers a way to easily track and manage your digital assets without spending a fortune. The app uses tags, license, payment, date, notes, and other information to help you organize your files. Customized smart folders, like those in the Finder, automatically collect images and other media as you add them to your Stock Keeper library based on criteria you define, making it easy to locate your files quickly. One of my favorite features is Stock Keeper's Web

Search Groups, which uses an integrated Web browser and bookmarks to save websites from which you download stock images or other media files (\$19; Minder Softworks; mindersoftworks.com).—JEFFERY BATTERSBY

PRODUCTIVITY

Dropzone 2.0

We all have tasks that we carry out repeatedly, and we know we could simplify them if only we had the time and inclination. Dropzone (★★★★½) helps by letting you quickly perform custom actions on files that you drag onto either its menu-bar icon or its pop-out Circles. Dropzone's preferences let you configure destinations for your files (or for bits of text, URLs, and other sorts of data); by default, these actions are relatively simple ones, such as compressing a file into a zip archive and attaching it to an email message, or moving a file to your Downloads folder. One clever action can even mount a disk image, copy the app to your Applications folder, and then unmount the disk image and move it to the Trash, all in a matter of seconds (\$10; Aptonic Limited; www.aptonic.com).—DAN MOREN



ORGANIZATION

FORMAL ADDRESS 2.3

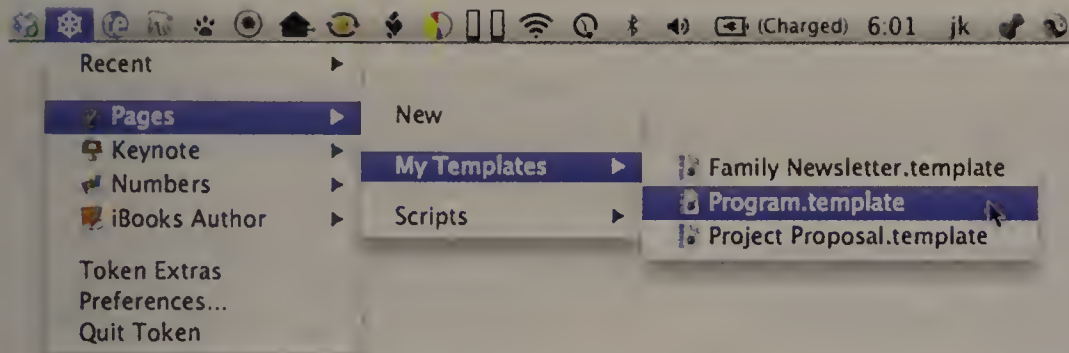
Let's say you find an address online that you know you'll need later when you're out and about. FormalAddress (★★★★) ports addresses from the Web (and other sources) to your Address Book in seconds. When you come across an address that you want to import to your Address Book, just copy the text to your clipboard, open FormalAddress, and paste the address in the blank box on the left. Click the Formalize button at the bottom right of the screen, and FormalAddress arranges the address as it

deems necessary. This process works well, although I did encounter some trouble with the formatting of apartment numbers while testing. Luckily, you can edit the address further before sending it to your Address Book. While FormalAddress may not be a utility you seek out, once you discover its usefulness you're likely to return to it again and again (\$6; Fulz Creative System Design; formal-address.com).—BRENDAN WILHIDE

ORGANIZATION

Tagit 1.3.0

There are two kinds of people: Filers organize files in folder hierarchies; searchers use search tools to find what they need. For searchers, Tagit (★★★★½) could be a great tool. It lets you apply metadata tags to files; you then use those tags in searches. For example, instead of storing files related to your home refinance in a 'Home Refi' folder, you'd create a **Home Refi** tag and apply it to the relevant files; you'd then find those files by searching for the tag in Tagit. You can also find tagged files from Spotlight (free; Ironic Software; ironicsoftware.com).—DAN MILLER



ORGANIZATION

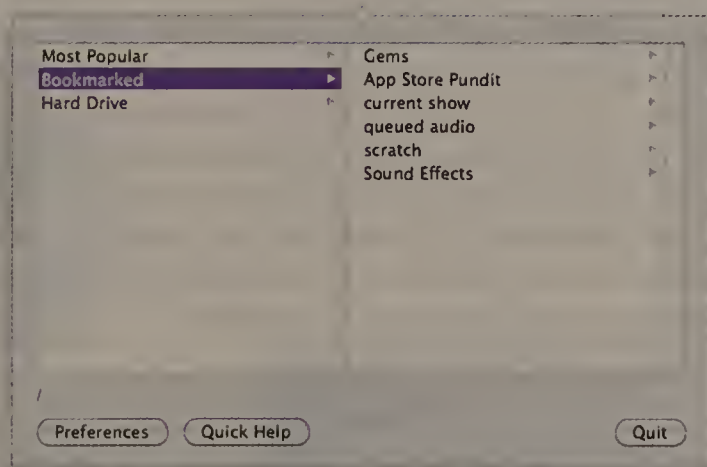
Token 1.3.1

If you frequently use Apple's iWork apps (Pages, Numbers, and Keynote) or iBooks Author, Token 1.3.1 (★★★★) can help you access your documents, templates (or themes), and scripts faster. Token's unobtrusive menu-bar icon has a Recent submenu that displays recent documents from any of the aforementioned apps; you can set how your docs are sorted, and you can ⌘-click any file to show it in the Finder. Unlike the File ▶ Open Recent submenus in these apps, which list the most recently opened files, Token lists the most recently *modified* files. Token won't dazzle you with cleverness, but it'll make your workflow more pleasant (\$3; Dale Gillard; dalegillard.com).—JOE KISSELL

PRODUCTIVITY

ReFind 1.1

ReFind (★★★★½) tracks the folders you use most often. It sits in your menu bar and is accessible with a key-stroke. Folders you work in a lot appear under Most Popular, or you can bookmark folders yourself. ReFind gives Mac users the welcome ability to jump to a folder or file without searching or clicking through stacks of open Finder windows (\$3; Mysterious Trousers; mysterioustrousers.com/refind).—SHELLY BRISBIN



PRODUCTIVITY

ChronoSlider 2.0.3

ChronoSlider (★★★★½) is a fancy alarm clock for your Mac: First set the time, and then name the alarm. The app has an interesting audible component, which uses the Mac's voice feature to announce the alarm (\$4; Tamas Gal; tamasgal.com/mac).—BRENDAN WILHIDE

GRAPHICS

Shapes 2.6

Use Shapes (★★★★) to draw organizational charts and flowcharts with a variety of shapes, lines, and arrows. It has an elegant interface, and you can export documents in various image formats—.jpg, .gif, .png, and .tiff—as well as .pdf (\$5; Celestial Teapot; celestialteapot.com).—SHARON ZARDETTO

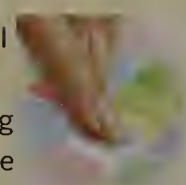
PRODUCTIVITY

TYPIST 2.2

Typist (★★★★) is a useful tool for people who want to break bad typing habits or who seek some concentrated practice.

The app is divided into eight series of lessons, with 99 lessons in all. Most lessons focus on touch-typing basics, but there are also speed drills and two courses that teach alternative keyboards, including the Dvorak and calculator keyboards. Statistics such as your words-per-minute count and error ratio are displayed at the bottom of the screen as you type. If you make an error, then you must redo the entire page again from the beginning. This can be frustrating, but it's what makes Typist so effective (free; Takeshi Ogihara; macworld.com/7877).

—KARISSA BELL



PRODUCTIVITY

VisualDiffer 1.4.1

Sometimes you need to compare files or folders to find differences. VisualDiffer (★★★★) is a simple drag-and-drop tool that performs these comparisons and displays the results in a two-pane window, with one file or folder on each side. Drag a folder to each side of the window and click on Show Diffs to find which files are different. You can check for differences by file content, size, time stamp, and more. I tried many different folders, and when comparing my iTunes Music folder with a backup, it took VisualDiffer a mere 30 seconds or so to scan some 65,000 files and find ones I had not yet backed up (\$4; Davide Ficano; visualdiffer.com).—KIRK MCELHEARN



Utilities

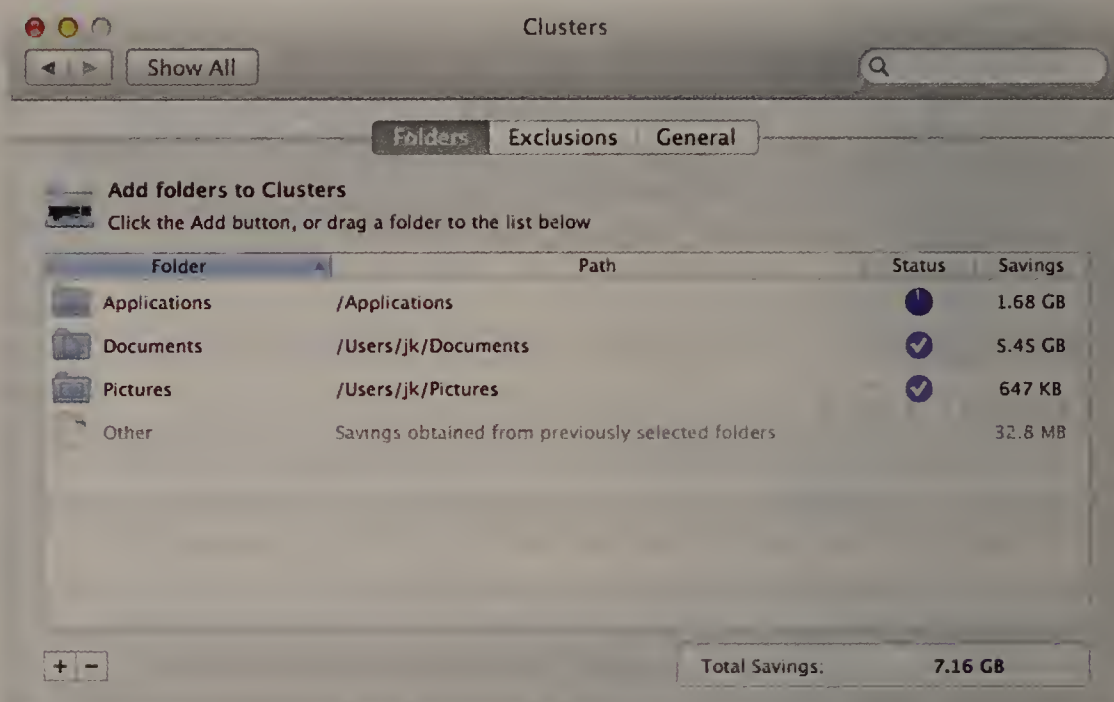
Your Mac is a fine-tuned machine—keep it in tip-top shape



UTILITIES

Battery Status 1.11

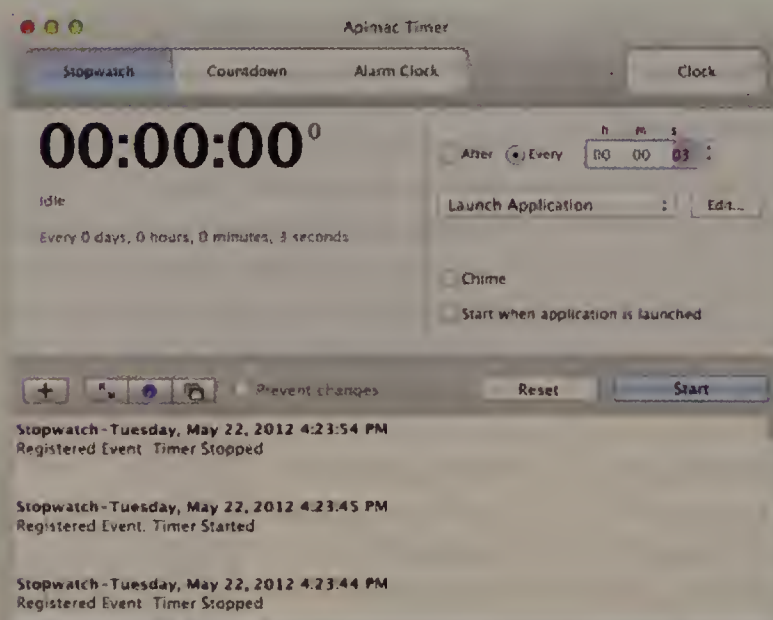
Battery Status (🔋🔋🔋) will appeal to Mac laptop and desktop users who also own Apple's Magic Trackpad, Magic Mouse, or Wireless Keyboard: It provides information about the battery status of each of those devices. Battery Status's menu-bar icon displays a graphical representation of the battery level of one of the supported devices or, for MacBook users, your laptop's battery level—you choose which in the app's preferences window. Alternatively, you can display the numerical percentage next to the icon, and you can choose whether that icon should be black and white or use colors to indicate status: green for a good charge, red for almost empty, and yellow for a range somewhere in the middle (\$2; Taylor Marks; macworld.com/7876).—DAN FRANKS



UTILITIES

Clusters 1.5.6

Clusters (🔍🔍🔍) is a file-compression app unlike any I've seen before. You tell it which folders you'd like it to compress, and it does so, silently, in the background. When it finishes, you should notice no difference at all—except that you will have a bigger total amount of free disk space. Files automatically decompress as you open them. Because Clusters relies on a low-level compression capability built into Mac OS X 10.6 (Snow Leopard) and later, you can even copy your files to computers that don't have Clusters installed or attach them to email messages, and they'll be decompressed on the fly (\$13; LateNiteSoft; latenitesoft.com).—JOE KISSELL



PRODUCTIVITY

TIMER FOR MAC 7.0

There are far cheaper timer apps available in the Mac App Store, but Timer for Mac (🔍🔍🔍) has some surprising functionalities that set it apart. The app has three modes: Stopwatch, Countdown, and Alarm Clock. Clicking the plus-sign button (+) adds timers, so you could have several different timers and clocks going at once. The interesting thing about Timer is that it offers dozens of functions that you can use instead of an alarm tone. For example, it can speak a message (one that you have typed into it ahead of time) aloud, restart your computer, go to a specific website, launch an application of your choice, execute an Automator workflow, or start a song in iTunes (\$20; Apimac; apimac.com).—KAREN FREEMAN



UTILITIES

CLEANMYMAC 1.10.5

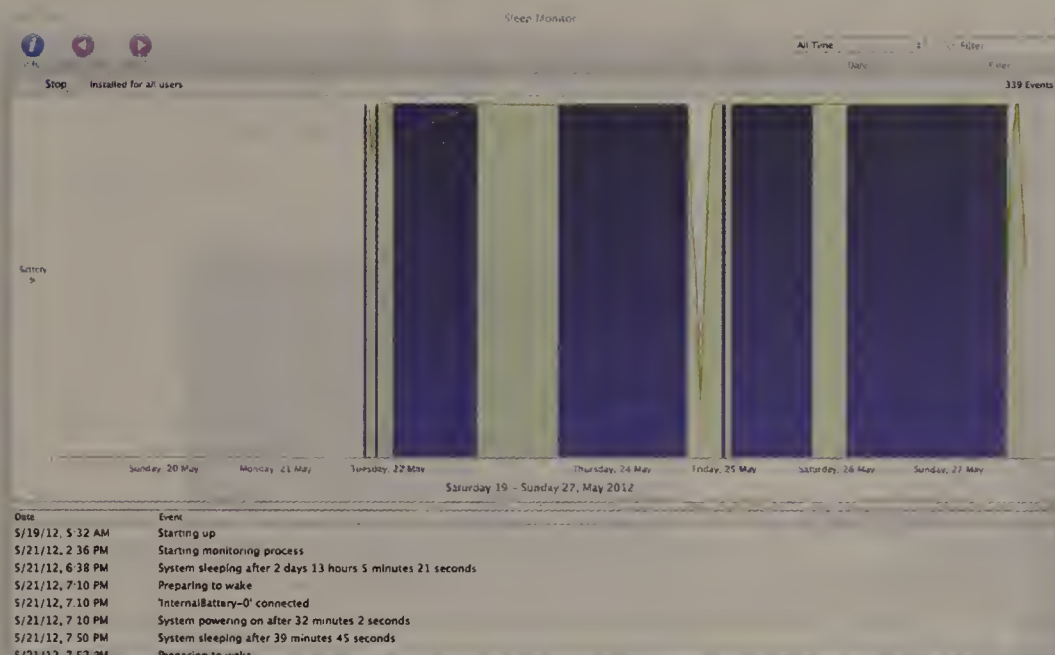
CleanMyMac (🔧🔧🔧) is a simple Mac cleaner. Its default settings tell the app to scan your Caches, Logs, Language Files, Universal Binaries, System Junk, and Trashes & Leftovers. Once the scan has completed, you can uncheck any items before cleaning. Then click the bright blue Clean button. CleanMyMac gets rid of unnecessary service files, logs, outdated cache, leftovers, and more, to create space and keep things running smoothly (\$5 to \$75; Macpaw; macpaw.com).—KAREN FREEMAN

PRODUCTIVITY

Log Leech 1.5.2

Mac OS X does a lot behind the scenes, and it records many of its operations and errors in log files. An included utility, Console, lets you access these files. Console logs can help you track down problems on your Mac, but Console has a spartan display, and its sorting options are limited. Log Leech steps in to remedy this. Reading the information in these log files, Log Leech presents them in a much more usable manner. The app can group log entries by application or process, something you can only do in Console by running searches. You can also sort by application name, date, or number of entries; the latter option lets you see which applications or processes have written the most log entries (\$10; Fortunate Bear; fortunatebear.com).

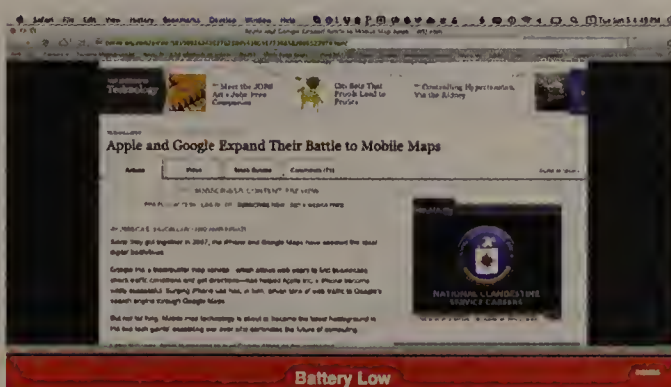
—KIRK MCELHEARN



UTILITIES

Sleep Monitor 3.0

While there are several similar battery-tracking apps, few offer Sleep Monitor's visual graph, which is the most important feature of the app. Sleep Monitor (🔧🔧🔧) tracks when your Mac goes to sleep and wakes up, as well as how long it remains in both states. It also tracks your battery levels, including the time necessary to charge or drain the battery. Sleep Monitor tracks usage daily (the only option for that setting is to view hourly usage), but it also includes options to show weekly, monthly, or all statistics. The chart makes it easy to visualize how and when your Mac uses its battery (\$16; DssW; dssw.co.uk).—BRENDAN WILHIDE



UTILITY

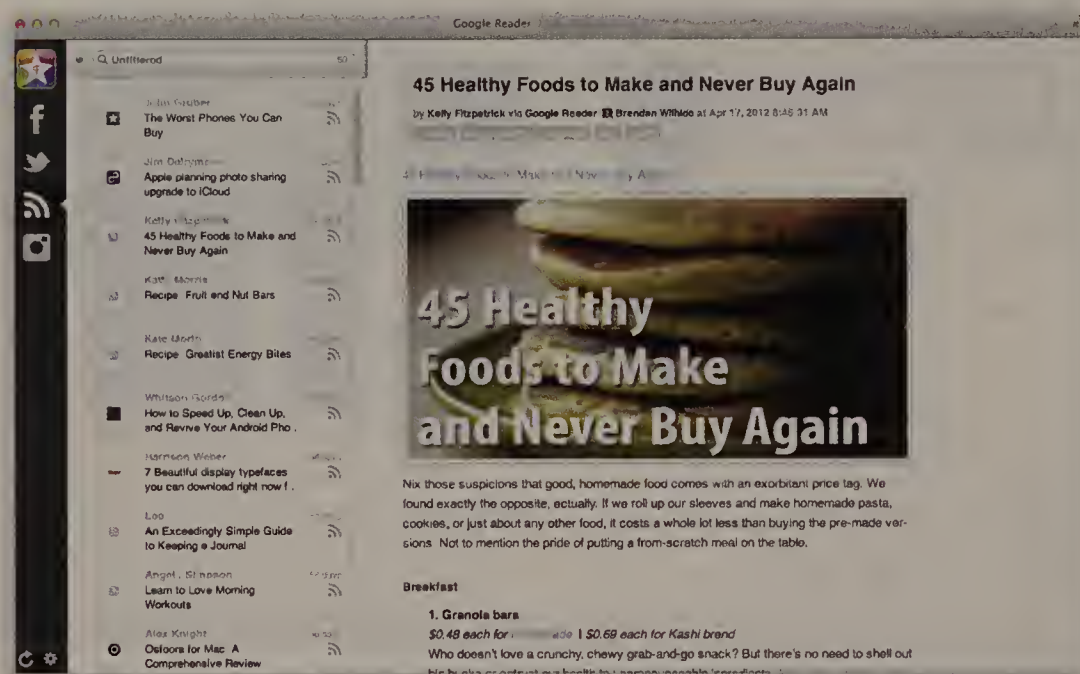
Low Battery Saver 1.0.1

While OS X does a decent job of telling you to plug in your computer before the black screen descends, it doesn't allow a lot of flexibility in how it provides

you with alerts. That's where Low Battery Saver (🔧🔧🔧) comes in: It warns you when your battery hits a certain amount of time remaining, and then shuts down your computer. Choose Preferences from Low Battery Saver's menu-bar icon, and you can configure at what point the program's Safe Sleep feature will turn off the screen, hard drive, and network. That will hopefully prevent your MacBook from going into hibernation, after which the computer usually takes a long time to wake up again. Low Battery Saver can also give you a warning in a configurable amount of time beforehand, as well as a separate alert that shows up when the battery life drops below a specific number of remaining minutes (\$2; Space Inch; spaceinch.com).—DAN MOREN

Internet and Web

Take full advantage of the Internet and Web



SOCIAL NETWORKING

Favs 1.0.4

Every day, I “like” posts on Facebook, bookmark articles in Instapaper, mark favorite tweets on Twitter, and save videos on YouTube. Sometimes I forget where I first saw an interesting story or link. Favs (★★★★½) integrates with Facebook, Twitter, YouTube, Instapaper, Delicious, Google Reader, Instagram, Pinboard, and Vimeo to bring your favorites together into one sleek, comprehensive package. Favs loads your favorites from each authorized social network and separates them by source in its main window—it makes sense of all that content by organizing it into a manageable state (\$10; Dirk Holtwick; favsapp.com).—BRENDAN WILHIDE

PRODUCTIVITY

CAFFEINATED 1.2.2

No matter how many times I try to make a Google Reader Mac client part of my daily routine, I always seem to go back to Google's Web interface. Caffeinated (★★★★) has changed all that. Its minimalist interface, in pleasant blues and grays, manages to be comprehensive but not overwhelming, despite my dozens of feeds and hundreds of unread items. Caffeinated includes an optional menu-bar icon that shows the number of unread items in your feed, which is especially

useful when you're using the app in full-screen mode: This keeps Caffeinated's main window out of sight when you don't want to be bombarded by your feed, but lets you focus on it when you do. Plus, with social and read-it-later integration, keyboard shortcuts, and a fast launch time, Caffeinated has changed my opinion of Mac-native RSS apps (\$9; GeekyGoodness; geekygoodness.com).—FRANK TISELLANO



SECURITY

Cookie Stumbler 1.5

Cookie Stumbler (★★★★) finds browser cookies and deletes them all, or lets you inspect them individually. The app is paired with a subscription that regularly updates definition files, which identify and delete tracking cookies (Basic, \$8; Standard, \$20–\$45; Writelt Studios; writeltstudios.com).—SHELLY BRISBIN



WEB

NetUse Traffic Monitor 1.2.5

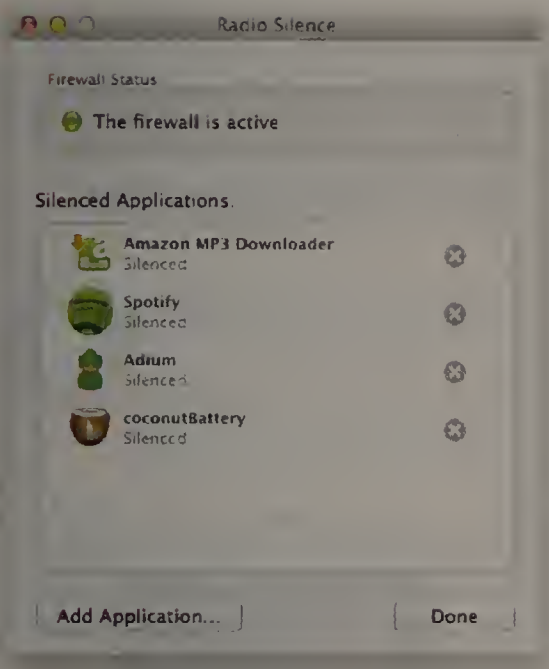
NetUse Traffic Monitor (★★★★½) watches your Internet activity, displays it on a graph in real time, and provides alerts to keep you out of the bandwidth poorhouse. Once the app has found your router, it begins tracking upload and download traffic between your network and the Net (\$8; DewDrop Studios; dewdropstudios.net).—SHELLY BRISBIN

SOCIAL NETWORKING

SocialFolders

With the rise of cloud services that let you store your media away from your Mac, it's easy to lose track of what you've uploaded where. SocialFolders (★★★★½) brings your cloud data back to your Mac. Link Facebook, Flickr, Google Docs, and Twitter accounts with SocialFolders, and then download the SocialFolders app; it syncs all your media to a set of folders on your Mac (three accounts and 2000 files, free; unlimited service, \$10 a year; SocialFolders; socialfoldersme).—BLAIR HANLEY FRANK





SECURITY

Radio Silence 1.0.3

Radio Silence (🔒🔒🔒) is a powerful firewall that blocks applications from accessing the Internet. Its simple setup makes it perhaps the easiest firewall I've ever used. Radio Silence provides more control over which Mac apps can access the Internet at will; if you want to block an app, just add it to your list once Radio Silence has launched. Mac OS X has a built-in firewall, but it doesn't block outgoing connections. Radio Silence blocks only outgoing connections, so the two firewalls complement each other (\$9; Juuso Salonen; radiosilenceapp.com).—BRENDAN WILHIDE

SECURITY

Privacy Scan 1.1

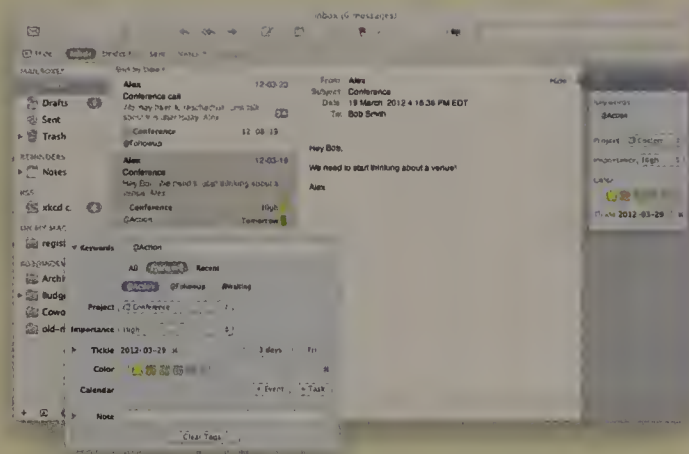
PrivacyScan (🔒🔒🔒) identifies and destroys Internet files that track your usage and reveal your online activities to others, mitigating common privacy concerns. You can erase information from many programs simultaneously, and then choose the level of destruction you're most comfortable with. It also clears your hard drive of space-hogging files (\$10; SecureMac; privacyscan.securemac.com).—JACKIE DOVE



EMAIL

MAILTAGS 3.0.2

Install MailTags 3 (🔒🔒🔒) and you'll soon forget it's there. Sure, it adds a superb level of functionality to Apple's native Mail app that you won't be able to live without once you've tried it, but it's so fully and

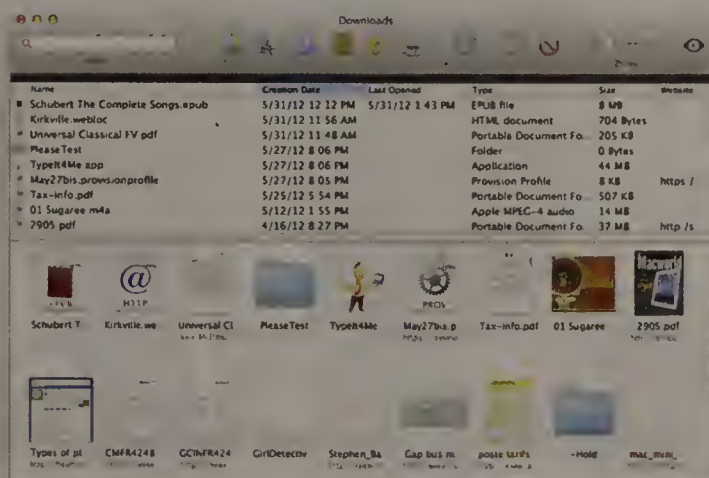


beautifully integrated into the Mail app at so many levels that you'll forget where Mail ends and MailTags begins. MailTags lets you create and assign project names, colors, priorities, and even lengthy notes to any piece of Mail. It integrates with iCal, so you can create events—including alarms—and tasks for iCal's Reminders list without even leaving Mail. The level of integration with Mail is almost spooky. You'll find MailTags-related commands and information in contextual menus, the View menu's Message Attribute submenu, Preferences, and even the drop-down menu from the search field, which will suggest categories such as keywords and projects when you start typing. In fact, you can even type **tag:** followed by a keyword into the search field (\$30; indev; indev.ca).—SHARON ZARDETTO

ORGANIZATION

Downloads 1.1

Perhaps your Downloads folder looks like that closet you never go into: all sorts of things piled up and unorganized, some of which may have been there for years. The Downloads app (🔒🔒🔒) gives you a different way of accessing this folder. Launch the app to see all the items in your Downloads folder, both as a list and as

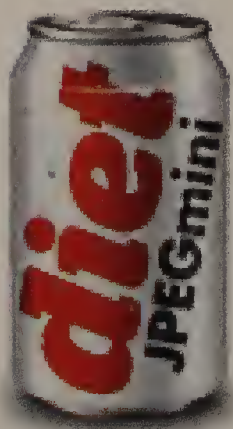


icons. From there, you can open items, reveal them in the Finder, move them, or zip them. In Quick Look, you can compress or print any item, or jump to the site from which you downloaded the file (\$10; hubapps; hubapps.com).

—KIRK MCELHEARN

Creativity

Unleash your artistic side



GRAPHICS

JPEGmini 1.1

JPEGmini (★★★★½) produces slimmed-down photos that—to the naked eye—are indistinguishable from their bulkier predecessors. It shrank my image files considerably, reducing 25 14.1-megapixel photos from 85MB to 41.2MB, and I didn't spot any differences between the compressed files and the originals. This isn't a tool for professionals, but it works well on an overflowing photo collection (\$20; ICVT; www.jpegmini.com).—**PHILIP MICHAELS**

GRAPHICS

Bronson Watermarker 1.5.1

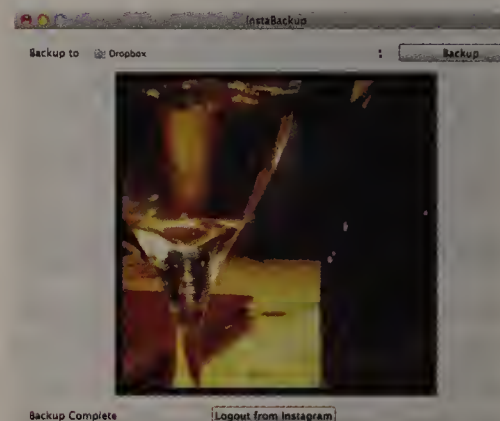
Bronson Watermarker (★★★★) is a tool for creating text-only watermarks. Drag and drop an image or PDF onto it, and add a watermark via the controls (\$10; Quote-Unquote Apps; quoteunquoteapps.com).—**SERENITY CALDWELL**



GRAPHICS

ImageOptim 1.4

ImageOptim 1.4 (★★★★½) optimizes your .png, .jpg, and .gif files (including .gif animations), shrinking their file sizes—often quite significantly. And it does so without affecting image quality. That's all it does, but that one feature makes ImageOptim awfully useful to Web developers and iOS and Mac app developers—smaller file sizes save bandwidth for everyone. The app works efficiently, is easy to use, and does just what it promises (free; Kornel Lesiński and contributors; imageoptim.com).—**LEX FRIEDMAN**



UTILITY

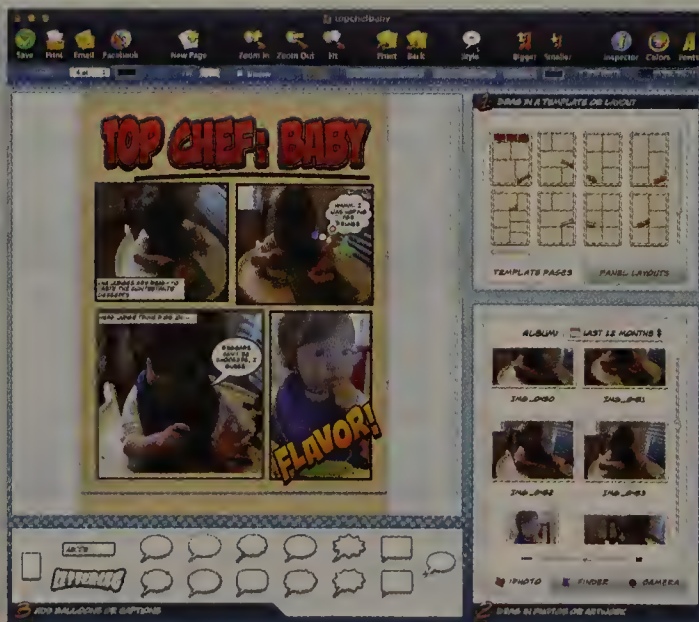
InstaBackup 1.1

InstaBackup (★★★★½) is a simple utility for saving Instagram photos; just choose a backup volume. This process takes only a few seconds, even with a few hundred photos (\$1; Cross Forward Consulting; david-smith.org).—**KARISSA BELL**

CREATIVITY

COMIC LIFE 2.2.1

Comic Life (★★★★½) lets you place photos into comic book–style layouts, and it perfectly balances ease of use with a sense of fun. Choose from 25 different themes along with a couple of blank templates. Comic Life's main window includes a photo picker that makes it easy to drag images out of your iPhoto library or track them down through the Finder; a Camera option even lets you snap pictures on the fly with your Mac's built-in camera. From there, it's just a matter of dragging in different speech-bubble and stylized text to give your final project the look you desire. Comic Life is great for parents, providing a way to liven up all those pictures of the kids you've shot. You can also turn to the app to give holiday letters to family and friends a memorable look (\$30; Plasq; plasq.com).—**PHILIP MICHAELS**



Nathan Alderman, Jeffery Battersby, Karissa Bell, Shelly Brisbin, Blair Hanley Frank, Karen Freeman, Joe Kissell, Joel Mathis, Kirk McElhearn, Frank Tisellano, Brendan Wilhide, and Sharon Zardetto are freelance contributors to *Macworld*. Serenity Caldwell, Jackie Dove, Dan Frakes, Lex Friedman, Philip Michaels, Dan Miller, Dan Moren, Jonathan Seff, and Leah Yamshon are *Macworld* editors.

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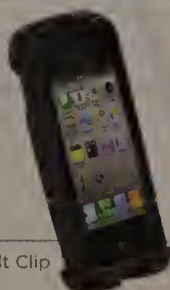


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LOOKING SHARP



NG

APPLE'S LATEST MACBOOKS BOAST NEW PROCESSORS, FASTER GRAPHICS, AND BETTER DISPLAYS

PHOTOGRAPHY BY PETER BELANGER

Apple isn't afraid to stir things up, making people rethink how they use technology. In recent years, most of that innovation has focused on the iPhone, the iPad, and iOS. But the MacBook Pro with Retina display, released at the Worldwide Developers Conference 2012, now directs attention back to the Mac.

With all the exhilaration surrounding the debut of Apple's pioneering Retina MacBook Pros, it's easy to overlook the

upgrades to the rest of its laptop lineup. The company updated a pair of 13-inch and a pair of 15-inch non-Retina MacBook Pros, and these new "regular" models offer a speed boost over their late-2011 predecessors. The MacBook Air has also evolved, with better performance, enhanced expansion capabilities, and lower prices. Read on to get the complete story on each new laptop.

15-INCH MACBOOK PRO WITH RETINA DISPLAY

BY ROMAN LOYOLA

The Retina MacBook Pro is a groundbreaking release, combining stunning performance and portability in a 15-inch Mac laptop. On top of that, this model will change the way you interact with a laptop. From overhauling how you view and work with content to transforming how you deal with external devices and connections, Apple isn't afraid to push its customers in new directions. The Retina MacBook Pro is certainly a not-so-gentle nudge.

AMAZING DISPLAY

The marquee feature of the new laptop is in the name. The Retina display technology made its debut in the iPhone 4, followed by the third-generation iPad. Now it's made its way to a Mac.

The Retina display's numbers are mind-boggling: 2880 by 1800 pixels—that's 220 pixels per inch—for a total of 5.18 million pixels on a 15.4-inch backlit screen. When the Retina MacBook Pro is set to its maximum resolution, the display is spectacular. The detail in photos is astounding, and text is crisper and cleaner than it's ever been before. (For the first few hours I used the Retina MacBook Pro, I even found reading the text in system alerts a pleasure.) Unfortunately, all those pixels also expose the low quality of many website images. Fire up an online article in Safari, and though the text is finely rendered, images now look jaggy. Video quality is excellent, too; these MacBook Pros already have more pixels on the screen than there are on an HDTV.

The Retina MacBook Pro actually has two video cards: The integrated video controller, which shares memory with the main memory and is actually part of the CPU, is Intel's HD Graphics 4000. The second video card (a separate component with its own memory) is Nvidia's GeForce GT 650M, with 1GB of video memory. The system automatically switches processors based on what you're doing—that means you don't sacrifice system performance when you're, say, playing a game.

With 2880 by 1800 pixels to work with, you might think the list of resolution choices in the Displays preference pane would be overwhelmingly long—my current 17-inch MacBook Pro has 19 resolution settings. But that's not the case. Apple has revamped Displays for the Retina MacBook Pro. The preference pane offers only five choices on a scale, which makes it much easier to find your ideal resolution setting.

THE DETAIL IN PHOTOS
IS ASTOUNDING, AND
THE TEXT IS CRISPER
AND CLEANER THAN
IT'S EVER BEEN BEFORE.

Soon after Apple announced the Retina MacBook Pro, the company discontinued the 17-inch MacBook Pro. With its support for 1920 by 1200 resolution—the native resolution of the 17-inch MacBook Pro—the Retina MacBook Pro serves as the replacement for the 17-inch model. The trade-off is that everything on the 15-inch screen is smaller than on a 17-inch. That hasn't bothered me—at least not yet.

WHAT'S INSIDE

Apple offers two models of the Retina MacBook Pro. The \$2199 model has a 2.3GHz quad-core Intel Core i7 processor, 6MB of shared L3 cache, 8GB of 1600MHz DDR3 memory, and 256GB of flash storage (more commonly known as a solid-state drive, or SSD). The \$2799



model has a 2.6GHz quad-core Intel Core i7 processor, 6MB of shared L3 cache, 8GB of 1600MHz DDR3 memory, and 512GB of flash storage.

The RAM is part of the motherboard; there are no slots or RAM sticks. That means you must decide when you buy whether to upgrade from the standard 8GB to 16GB; you can't upgrade the RAM after purchase. The situation is similar for the flash storage; it's not permanently attached, as it is in the MacBook Air, but it's not considered user upgradable. Companies such as OWC offer flash-storage upgrade kits for the MacBook Air, and chances are you'll see similar kits for the MacBook Pro. But using one might void your warranty, and Apple doesn't support aftermarket hardware.

Upgrading to 16GB of memory adds \$200 to the price of either Retina model. Unfortunately, the \$2199 model does not have an option to upgrade the 256GB of flash storage. The \$2799 model has a 768GB flash storage upgrade for an additional \$500.

The Retina MacBook Pro comes with two Thunderbolt ports and a USB 3.0 port. There's no ethernet—the Retina MacBook Pro comes with 802.11n, and Apple sells a Thunderbolt to Gigabit Ethernet Adapter for \$29 (macworld.com/7882). There's no FireWire 800, either, which I think is a bigger loss; Apple will probably sell a lot of its new Thunderbolt to FireWire 800 adapters when they become available—too bad that adapter isn't an included accessory. There's also no Kensington lock slot, so you'll need to find another way to secure the Retina MacBook Pro to a desk. And (to nobody's surprise) there's no SuperDrive. If you need an optical drive, you'll have to get an external model, such as Apple's \$79 USB SuperDrive (macworld.com/7883).

SLIMMER BODY

At first glance, the Retina MacBook Pro looks much like the regular 15-inch MacBook Pro. The major difference is the thickness. With the lid closed, the Retina MacBook Pro measures 0.71 inch high, while the regular 15-inch MacBook Pro is nearly an inch tall. The thin profile adds to

its portability and can alleviate the discomfort some users experience when the edge of the laptop presses into their wrists as they type.

The Retina MacBook Pro weighs 4.46 pounds, which is nearly a pound lighter than the regular 15-inch MacBook Pro, and more than two pounds lighter than the 17-inch MacBook Pro.

BENCHMARKS

The 2.6GHz Core i7 Retina MacBook Pro is not only the fastest laptop we've tested, but the fastest Mac we've tested, posting a remarkable score of 330 on our Speedmark 7 test. The 2.3GHz Core i7 Retina MacBook Pro isn't far behind, with a score of 319. Compared to the fastest new 15-inch regular MacBook Pro with a 2.6GHz Core i7 processor, 8GB of RAM, and a 5400-rpm 750GB hard drive, the 2.6GHz Core i7 Retina MacBook Pro is 38 percent faster, and the 2.3GHz Core i7 Retina MacBook Pro is 33 percent faster.

If you look at the scores for last year's top-of-the-line 15-inch MacBook Pro, the new 2.6GHz Core i7 Retina MacBook Pro is a whopping 51 percent faster. The comparison is just as impressive for the new 2.3GHz Core i7 Retina MacBook Pro; it's 46 percent faster than its low-end 15-inch predecessor.

It's the flash storage that gives the Retina MacBook Pros that boost. They see serious gains when performing disk-based activities, such as in our Duplicate 2GB Folder test, Zip 4GB Folder test, and Unzip 4GB File test. In other tests where the storage device comes into play (Import iMovie Archive, Aperture Import, and iPhoto Import), the Retina laptops also held an advantage.

In less disk-intensive tests, the latest Retina laptops and the regular MacBook Pros are in the same range. In our Portal 2 frame-rate test, the regular MacBook Pros were clearly faster than the Retina laptops. That's because the Retina displays have so many more pixels to push that it affects the frame rate.

HEAT AND NOISE

When running the installer for Blizzard Entertainment's Diablo III, the Retina

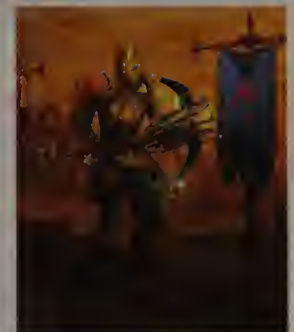
DEVELOPERS SAY RETINA-OPTIMIZED MAC APPS WILL TAKE TIME

If you do nab a new Retina MacBook Pro, be warned: It might be a while before your apps look as sharp as the screen itself.

Apple is already updating its own applications for the Retina display, but third-party developers such as Adobe and Autodesk say that they'll need time to ship Retina-optimized versions of their apps. While Apple used Photoshop and AutoCAD in its introductory demo of the Retina MacBook Pros, those were both unreleased versions. Adobe expects to release an updated version of Photoshop later this year; Autodesk does not yet have any officially stated plans for AutoCAD.

Such lag times for Retina-optimized Mac apps shouldn't create major problems, but it may remind some users of what happened when Apple upgraded the iPad to a Retina display: Unoptimized apps looked pixelated and blurry on the higher-definition screen.

But Apple, with its home-field advantage, is leading the way: It has released a spate of upgraded software, including new versions of its Aperture photo-editing and Final Cut Pro video-editing software that are both optimized for the Retina display. iMovie 9.0.6 promises "enhancements for the MacBook Pro with Retina display," and a Motion update also offers enhanced content for the new notebook. Apple has also updated Compressor to enhance the Share Monitor feature for the new MacBook Pro.—JOEL MATHIS



High-Resolution Support Diablo III is one of the few apps that is taking advantage of the Retina MacBook Pro's native 2880 by 1800 display now.



MacBook Pro definitely warmed up, but not enough to make it uncomfortable to hold on my lap. The fans never had to kick in. After the game finished installing, I played it at a resolution of 2880 by 1800 (selected in its settings), and the laptop heated up noticeably right away.

Next, I watched several YouTube videos and iTunes movie trailers, all streaming at 1080p or 720p over the Internet. The laptop got a bit warmer than when I installed Diablo III, but not so hot that I had to move it off my lap. The fans never came on and the videos ran smoothly.

I also used HandBrake to convert a movie file to play on my iPhone. The file conversion process took less than 5 minutes, during which time the fans didn't run and the laptop didn't heat up noticeably.

BATTERY LIFE

The Retina display is power-hungry; you need a lot of juice to move all those pixels. The Retina MacBook Pro's built-in battery is rated at 95 watt-hours. By comparison, the regular 15-inch MacBook Pro is rated at 77.5 watt-hours. The

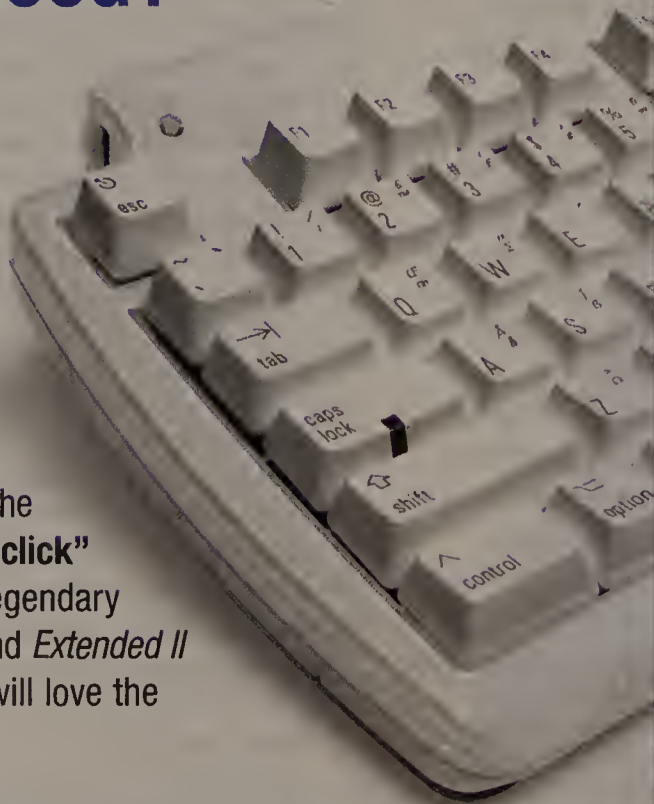
Retina MacBook Pro's much bigger battery accounts for the difference.

Apple rates the battery life of all its 15-inch MacBook Pros at 7 hours of what the company calls *wireless Web use*. Macworld Lab uses a more rigorous test for battery life: We loop a movie file in full-screen mode in QuickTime Pro; this drains the battery faster than using the laptop for Web access.

Both Retina laptops lasted about 5 hours in our test. Even with their larger batteries, they didn't go for as long as the regular 15-inch MacBook Pros, which

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lasted several minutes longer. The previous generation of 15-inch MacBook Pros actually outlasted all of these new models by a significant margin.

NEW DEFINITION OF 'PRO'

Apple's idea of "pro"—at least for laptops—doesn't involve customizable hardware, which means hard-core users are at a crossroads: You can still buy a regular MacBook Pro, open it up, and have your way with it, but that design will likely follow the 17-inch MacBook Pro into discontinued status soon.

So, what is Apple's idea of a "pro" laptop? For now, it's the Retina MacBook Pro, which is philosophically similar to the MacBook Air. Obviously, this high-end MacBook is light and small, but you have to adjust to the absence of a few features (such as the SuperDrive and ethernet). What's "pro" about this new Pro is its performance. The CPU speeds match those of the regular MacBook Pros, and the flash storage helps

the Retina models blaze past their non-Retina brethren; their performance is several notches above the MacBook Air's.

MACWORLD'S BUYING ADVICE

With the Retina MacBook Pro, Apple once again shows that it refuses to sit still and get comfortable. It redefined the ultraportable laptop with the MacBook Air, and it has now transformed the concept of the pro laptop. Going lighter and smaller was expected, given how Apple does things. But the changes in the Retina MacBook Pro's feature set will have current MacBook Pro owners reexamining their needs. Do they really need ethernet, for instance, or a SuperDrive?

One thing's clear: Apple has given its customers more laptop choices than they've had since the MacBook's demise, with three different types to choose from: the MacBook Air, the regular MacBook Pro, and the Retina MacBook Pro. There's a

good range of prices, too—from \$999 to \$2799, not including build-to-order options.

But the Retina MacBook Pro is the future of Apple's laptop line—and it's a shining success. The Retina display is something to marvel at, and the lightweight, smaller design addresses the demand for devices to be ever more portable. You'll have to make a few adjustments, but you don't have to sacrifice performance. In sum, the Retina MacBook Pro is a remarkable laptop.

Roman Loyola is a *Macworld* senior editor.

15-INCH MACBOOK PRO

Core i7/2.3GHz, with Retina display
★★★★½; \$2199

15-INCH MACBOOK PRO

Core i7/2.6GHz, with Retina display
★★★★½; \$2799

Apple; www.apple.com

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13-INCH AND 15-INCH MACBOOK PRO

BY JACKIE DOVE

The regular MacBook Pro still has significant appeal for a particular segment of Apple's audience: professionals who want substantial computing power, but not necessarily a super-high-resolution display—or the steep price that goes with one. Though they're not creative pros, they may want to occasionally do creative work in addition to everyday business tasks.

With the Retina MacBook Pro catering to creative pros, Apple has reinvented its laptop lines. The MacBook Pro covers the business market, and the Air appeals to users who prize portability above all else.

SIZE AND WEIGHT

The first thing that stands out about the regular 15-inch MacBook Pro is its size and weight. It's just under an inch thick, but at 5.6 pounds, it's a humongous beast by the standards of the MacBook Air or the iPad. The 13-inch model is a bit more than a pound lighter, which makes a huge difference if you regularly tote your laptop.

When using either MacBook Pro model, it helps to have thick wrists: If you don't, you may have to adjust your hand position to accommodate the case's squared-off edge.

Some users find that the MacBook Air's wedge shape eases the pressure on their wrists—those ergonomic differences can be just as important to comfort as weight.

One reason for the extra heft is the presence of a traditional hard drive. Spinning, platter-based drives have an advantage over SSDs in terms of capacity and price, but they're also slower and heavier than the flash storage used in the Air and in the Retina MacBook Pro.

SCREENS

The 15-inch MacBook Pro offers a native screen resolution of 1440 by 900 pixels, along with various supported resolutions at 16:10, 4:3, and 3:2 aspect ratios. For an extra \$100, you can get a screen that supports a high resolution of 1680 by 1050 pixels, with either a glossy or an


antiglare display. Resolution options are lower in the 13-inch models, beginning at 1280 by 800 pixels.

Intel's HD Graphics 4000 integrated chip powers both the 13-inch MacBook Pro and the new MacBook Air, while the 15-inch models add to that chip Nvidia GeForce GT 650M discrete graphics with either 512MB or 1GB of video RAM and automatic graphics switching. (The extra video RAM comes in the 2.6GHz model.)

Though it can't match the quality of the Retina display, the screen on the 15-inch MacBook Pro is vibrant and pleasing. Compared with the colors on the 15-inch MacBook Pro, those on the lower-resolution 13-inch model looked a bit faded—it's disappointing that Apple didn't boost the screen's specs with the available technology.

PERFORMANCE

The 15-inch models come standard with either a 2.3GHz or a 2.6GHz quad-core Intel Core i7 processor. They come with 4GB and 8GB of 1600MHz DDR3 memory, respectively, though the 2.3GHz model can be outfitted with 8GB for \$100. The 2.6GHz model is configurable to 2.7GHz for an extra \$250.



THOUGH IT CAN'T MATCH THE
RETINA DISPLAY, THE SCREEN ON
THE 15-INCH MACBOOK PRO IS
VIBRANT AND PLEASING.

The 15-inch MacBook Pros come standard with a 500GB or 750GB 5400-rpm hard drive. But that too can be upgraded to either a larger capacity or a faster drive for up to \$200. Solid-state drives (SSDs) are available in 128GB, 256GB, and 512GB capacities for up to \$1000, depending on which machine you're upgrading.

Compared with the models released late last year, the MacBook Pro non-Retina line shows a modest uptick in performance. According to Macworld Lab tests, the low-end 15-inch 2.3GHz Core i7 model with 4GB of RAM came in with a Speedmark score of 221, 14 percent faster than the previous low-end 15-inch model with its 2.2GHz Core i7 processor and 4GB of memory, which scored 190.

In the 13-inch line, the low-end model features a 2.5GHz dual-core Intel Core i5 processor with Turbo Boost up to 3.1GHz and 3MB of L3 cache; the high-end model has a 2.9GHz dual-core Intel Core i7 with Turbo Boost up to 3.6GHz and 4MB of L3 cache. Hard-drive space in the current models matches that of the previous generation, at 500GB for the low-end model and 750GB for the high-end model.

Our lab tests found that the new low-end 13-inch MacBook Pro, with a Speedmark score of 161, clocked in at 9 percent faster than the previous model. The new high-end 13-inch MacBook Pro, with a Speedmark score of 189, comes in 15 percent faster overall than its predecessor, which scored 164 on the benchmark.

The 13-inch MacBook Pro has a built-in 63.5-watt-hour lithium-polymer battery, while the 15-inch model has a 77.5-watt-hour lithium-polymer battery. We found battery life in the same ballpark throughout the new product line, with negligible

APPLE DISCONTINUES 17-INCH MACBOOK PRO

The 17-inch MacBook Pro has learned that bulkiness can be dangerous to your health: Apple has discontinued the largest member of its laptop line.

If you're looking to pick up one of these behemoths, they may still be available—but only while supplies last. You might be able to pick one up in the refurbished section of the online Apple Store, or get a brand-new model by calling Apple's online store or visiting your local Apple Store.

With the 17-inch model gone, it may seem as though Apple has lost some versatility in its portable lineup. The leviathan of Apple's laptops usually featured the most powerful processors and graphics cards available, and only it and the 15-inch MacBook Pro of the same generation offered an antiglare option.

But if you're looking for a reason why Apple eliminated the 17-inch model now, you need go no further than the 15-inch Retina display MacBook Pro. Not only does it offer the most cutting-edge technology in any Apple laptop to date, but its 2880-by-1800-pixel display outstrips the 17-inch's 1920 by 1200 resolution with room to spare. Add in the fact that the new MacBook Pro is thinner and lighter—to the tune of more than 2 pounds—and it seems pretty clear that the Retina display model is Apple's new ideal for what a powerhouse portable should be.—**DAN MOREN**

variations. All the new laptops topped 5 hours of continuous use; the 13-inch 2.5GHz model bested the others at 5 hours and 47 minutes.

MACWORLD'S BUYING ADVICE

The regular MacBook Pros are not flashy like the new Retina models, but they offer some advantages in price and flexibility. That said, if you bought a MacBook Pro within the last year, there's no reason to purchase one of these new machines. Simply upgrading the RAM or the hard drive might benefit performance enough so your machine nearly meets or exceeds the level of the new offerings. However, if you've been hanging on to an older system and you're tired of its sluggish performance, you'll make

yourself happy by picking up one of these new laptops.

Jackie Dove is a *Macworld* senior editor.

13-INCH MACBOOK PRO

Core i5/2.5GHz

★★★★; \$1199

13-INCH MACBOOK PRO

Core i7/2.9GHz

★★★★; \$1499

15-INCH MACBOOK PRO

Core i7/2.3GHz

★★★★; \$1799

15-INCH MACBOOK PRO

Core i7/2.6GHz

★★★★; \$2199

Apple; www.apple.com



Good-bye to Ports The side of the new MacBook Pro, both regular and Retina (top), is spartan compared to that of the old model (bottom).

11-INCH AND 13-INCH MACBOOK AIR

BY DAN FRAKES

In a few short years, the MacBook Air has gone from an expensive technology experiment to a successful product firmly established as the heart of Apple's laptop line. In fact, the new models might just be making the MacBook Pro line a little nervous.

FAMILIAR ON THE OUTSIDE

The laptop's external design has remained essentially the same. Both the 11-inch and 13-inch Airs are thin wedges of unibody aluminum—just under 0.7 inch thick in the back and just over 0.1 inch thick in the front. The 13-inch Air weighs just under 3 pounds, with the 11-inch version weighing in at just under 2.4 pounds.

The screen is, as before, great. With a resolution of 1366 by 768 pixels on the 11-inch model and 1440 by 900 on the 13-inch one, it's not a Retina display by any means, but it's bright and clear, with outstanding colors and viewing angles.

There are bigger changes when it comes to the ports. Like the 2011 Air, the new model sports a Thunderbolt port for connecting both high-speed peripherals and external displays. But the Air's two USB ports, one on each side, are now USB 3.0 versions, making the Air line the first—along with the Retina MacBook Pro—to support the new USB standard.

Still missing, of course—but missed less and less every day—is an optical drive. And the Air still omits an ethernet port, although users who need that capability—for faster networking or to meet security requirements—will appreciate the new \$29 Thunderbolt to Gigabit Ethernet Adapter. Unfortunately, unless you've got an Apple Thunderbolt Display, you can't use the adapter and an external display at the same time.

INTERNAL ADVANCES

Some of the new Air models' biggest changes are found on the inside. The 11-inch Air uses a 1.7GHz dual-core Intel Core i5 processor, while the 13-inch Air uses a 1.8GHz version; a 2.0GHz i7 processor is available as a build-to-order option.

Last year's Airs offered big performance gains over their predecessors,

thanks to the switch from Core 2 Duo to Core i5 processors. While this year's Airs don't offer as big a jump, our benchmarks show that the new Airs are roughly 15 to 21 percent faster in processor-intensive tasks than their immediate predecessors.

For 2012, the Air lineup has been upgraded to an Intel HD Graphics 4000 GPU. In our testing, the new Air models were about 60 percent faster in our Cinebench OpenGL test, although they were only 20 to 25 percent faster in our Portal test.

When it comes to RAM, all four MacBook Airs, including the \$999 entry-level model, now ship with a minimum of 4GB; you can upgrade any 2012 Air, at the time of purchase, to a whopping (for an Air) 8GB for \$100. Memory is also a bit faster this year, jumping from 1333MHz to 1600MHz.



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Finally, Apple has also upgraded the Air's flash storage with faster versions, claiming that the drives used in the 2012 Air line are twice as fast as the ones used in 2011. Specifically, Apple says the 2012 Air's flash storage devices are capable of transferring data at up to 500MB per second. In our testing, the 11-inch Air with 128GB of flash storage was 35 percent faster than its predecessor at file duplication, and the 13-inch Air was 42 percent faster than its 2011 counterpart.

On the other hand, the \$999 model still ships with a paltry 64GB of storage. Yes, Apple's vision of computing seems to be that you'll take advantage of the cloud to store your media and documents—but until the MacBook Air ships with some flavor of always-on mobile network technology, 64GB is an embarrassingly small amount of storage for a \$1000 laptop.

That aside, all these improvements add up to a nice overall speed bump. For example, when we tallied our overall performance benchmark, Speedmark 7, a 128GB 11-inch 2012 Air was 28 percent faster overall than the equivalent model last year, and a 128GB 13-inch 2012 Air was just under 20 percent faster than the equivalent 2011 version.

When we compared the new Airs to one of the new 13-inch MacBook Pros (with a 2.9GHz Core i7 processor, 8GB of RAM, and a 5400-rpm hard drive), the Pro scored roughly 26 percent higher in our Mathematica test and roughly 28 percent faster in our Cinebench CPU test. But because it uses the same Intel HD Graphics 4000 GPU as the Air lineup, the MacBook Pro was only a few percentage points faster than the 2012 13-inch Airs at the Cinebench test and 12 percent faster in our Portal test. Perhaps most surprisingly, thanks to the flash storage, both of the 2012 128GB Airs (11-inch and 13-inch) bested the i7-equipped MacBook Pro in our overall Speedmark benchmarks, by 3 and 6 percent, respectively.

The 11-inch Air has a claimed battery life of up to 5 hours, with the 13-inch Air boasting up to 7 hours. Our test results show roughly 4 hours of battery life for the 11-inch Air and around 5 for the 13-inch model.

MAGSAFE 2 TAKING OVER APPLE'S LAPTOPS

It's been more than six years since Apple first introduced MagSafe, the magnetic power connectors used in the company's laptops. Now Apple has upgraded the MagSafe on some of its new models.

If you pick up a new Retina MacBook Pro or MacBook Air, you'll note that those laptops now sport a slimmer version of the MagSafe adapter—a technology Apple has dubbed MagSafe 2. The advantage of MagSafe 2 over the original MagSafe is simply its slimness: It's easier to fit the new, slimmer port into very thin Mac laptops.

The MacBook Air uses a 45W MagSafe 2 power adapter; the Retina MacBook Pro uses an 85W MagSafe 2 adapter. If history is a guide, you'll be able to mix and match those MagSafe 2 adapters, but the lower-powered one will take longer to charge the MacBook Pro, and the 85W one can't charge a MacBook Air any faster.—**LEX FRIEDMAN**



Old and New Apple's tiny \$10 MagSafe to MagSafe 2 Converter lets you use your old power brick with your new laptop.

MACWORLD'S BUYING ADVICE

The 2012 MacBook Airs are, as you might expect, easily the best Air models yet. With upgraded processors and graphics capabilities, plus Thunderbolt and USB 3.0 for expansion, it's getting tougher than ever to say that the Air isn't a full-featured laptop. And you no longer have to give up a big chunk of performance if you want to go light: Thanks to flash storage, both 2012 Air models are competitive with Apple's current 13-inch MacBook Pro models—and the Air has a considerably better display. In fact, if you don't need a 15-inch screen and lots of storage space, it's now tough to justify the choice of a MacBook Pro over an Air.

As for deciding between the 11-inch and 13-inch Air models, that comes down to screen size and battery life. The performance differences are small enough that users who prize portability can opt for the 11-inch Air without worrying about what they're giving up.

I suspect, however, that many people will want a bit more screen real estate (and perhaps better battery life), and it costs only \$100 to make the jump from the 11-inch 128GB Air to the 13-inch model—an easy decision if you need the space. I recommend the \$1499 13-inch Air only for those who need more storage space (256GB, upgradable to 512GB for \$500).

Finally, some advice for current Air owners who might be wondering if they should upgrade: If you bought a MacBook Air last year, the performance boost from 2011 to 2012 is significant, but it probably isn't worth buying a new machine—after all, if cutting-edge performance was your priority, you wouldn't have gone with the Air. (The one exception is if you'd benefit from 8GB of RAM.) But if you have a 2010 Air, the 2012 models offer major performance improvements; and if you have a 2009 or older MacBook Air, figuring out whether to upgrade is a no-brainer.

Dan Frakes is a *Macworld* senior editor.

11-INCH MACBOOK AIR

Core i5/1.7GHz, with 64GB flash storage
●●●●½; \$999

11-INCH MACBOOK AIR

Core i5/1.7GHz, with 128GB flash storage
●●●●●; \$1099

13-INCH MACBOOK AIR

Core i5/1.8GHz, with 128GB flash storage
●●●●½; \$1199

13-INCH MACBOOK AIR

Core i5/1.8GHz, with 256GB flash storage
●●●●½; \$1499

Apple; www.apple.com

HAIKU

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You obsessed over every bit of furniture, floor option and window treatment. But when it came to the ceiling fan, you just went with ... "whatever."

Haiku® takes "whatever" out of the equation, exceeding expectations you didn't know you had.

In a class of its own

Haiku looks different because it is different, with revolutionary technology hiding inside the seamless fit and finish at its center. The sleek look conceals Sensorless Drive Technology™ that delivers an 80% improvement in efficiency over conventional ceiling fan motors. Confirmed by ENERGY STAR® as the world's most efficient ceiling fan, Haiku also won the prestigious international red dot award, a prominent seal indicating quality design.

Don't call them blades

Haiku's patent-pending Thin Sheet™ airfoils span 60 inches and feature an aerodynamic profile, resulting in smooth, silent airflow (in fact, it's also the quietest fan in the world—at all speeds). Haiku airfoils are made of Moso bamboo, a sustainable resource with the tensile strength of steel that renews itself every five years. After multiple quality inspections and a seven-pass, solvent-free finish to highlight the natural grain, five thin

sheets of bamboo are bonded in a hot forming press, then cut and sanded by hand to create airfoils that meet the strictest quality standards. (Actually, there are only two companies in the world that could create our unique bamboo airfoils—one in Germany, the other in Michigan. We chose the U.S.)

Each airfoil is then individually fitted as technicians confirm the perfect balance of every fan.

Stealth operation

Haiku's sophisticated control features include Sleep, Timer, Reverse, and variable speed settings, including the exclusive Whoosh™ mode to simulate natural airflow. This is the one fan you'll dare turn all the way to high—its unique core and 13-step hand-balancing process mean it will never rattle or wobble. Ever.

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HAIKUFAN.COM/MAC



reddot design award
winner 2012

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WORKING MAC

Tips, Tricks, and Tools to Make You and Your Mac More Productive

Inside the Mysteries of Mission Control

Frequently asked questions about using OS X's screen-clutter controller

BY SHARON ZARDETTO

Q&A

Early Mac screens weren't cluttered. But then, early Macs allowed you to open only one application at a time—and sometimes only one window. OS X's Mission Control lets you manage today's advanced computing environment by providing a bird's-eye view of all your open apps and windows. When you learn how to manage Mission Control's features, you're the one in control.

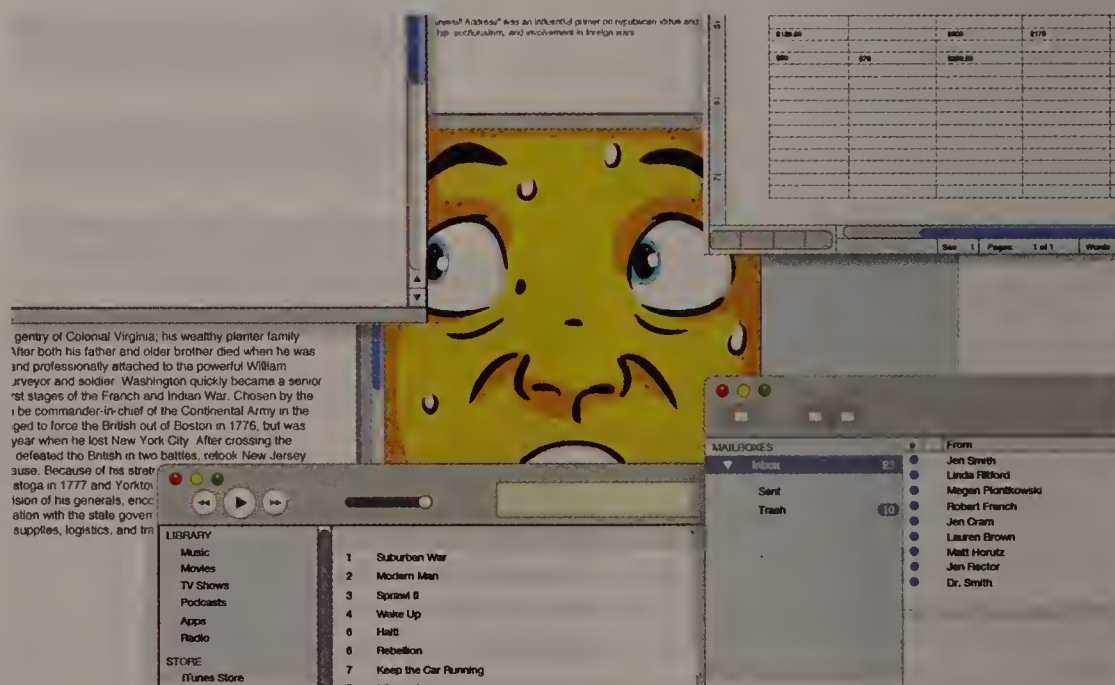
Q: How do I activate Mission Control?

A: Activate it with a press of a function key, a trackpad swipe, or any keyboard shortcut you wish. If you have a newer Apple keyboard or laptop, press F3. Otherwise, F9 is the default (Fn plus F9 on a laptop). You can set your shortcuts via System Preferences in up to three different places:

The Mission Control Pane Choose from a list of options to trigger Mission Control from the keyboard and/or with a mouse button.

The Trackpad Pane In the More Gestures tab, check the box for Mission Control and select a swipe from the menu. It's a good idea to set a motion opposite to what you're using for App Exposé (which shows all the windows for the current app); I use a four-finger upward swipe for Mission Control, a four-finger downward swipe for App Exposé.

The Keyboard Pane In the Keyboard Shortcuts tab, select Mission Control on the left and click Mission Control at the top of the right pane to select it. Select the current shortcut and press the new key combination you want to use.



Q: Why would I want to have multiple desktops?

A: Multiple desktops let you isolate apps, or even windows in the same app, from each other so you can work in a less crowded, less distracting environment. For example, you could close Mail's Message Viewer window to neaten things up, but eventually you'll need to reopen it. Minimizing it crowds your Dock and forces you to retrieve it from there later. Put an app on its own desktop, and it's out of the way and yet immediately available.

Q: How do I make a new desktop space?

A: It's a cinch: When you're in Mission Control, move your cursor to the upper right corner of the screen and click the Add Desktop button

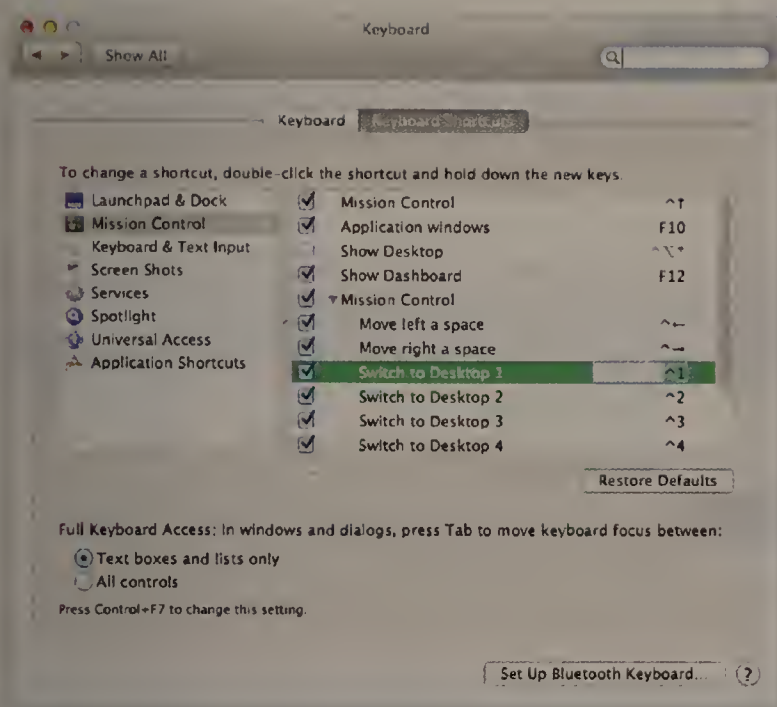
that slides out from the edge of the screen. If your Dock is on the right, you can access Add Desktop button from the upper left corner instead.

Q: What's the quickest way to create a new desktop space for a specific window?

A: Say you want to put iCal on its own desktop. Instead of clicking the Add Desktop button and dragging the iCal window into the new desktop, drag the window from the main desktop to the screen's upper right corner and drop it on the Add Desktop button. Voilà! If you drag the app's icon instead of a single window onto the Add Desktop button, OS X moves all the windows open in that app onto the new desktop.

Q: Can I move to a desktop space using the keyboard?

ILLUSTRATION BY CHRIS GASH



A: Yes. Use Control–Left Arrow and Control–Right Arrow to move to the previous and next desktops while you’re working (you can’t cycle from the last to the first desktop or vice versa).

To move to a specific desktop, use the default shortcut of Control plus the desktop’s number, with zero standing in for 10. After 10, the combo is Control–Option plus a number; so, for instance, Control–Option–3 is for desktop 13.

To change the defaults, open the Keyboard preference pane and click the Keyboard Shortcuts tab. Choose Mission Control in the list on the left, and expand the second Mission Control item on the right by clicking the arrow in front of it. To change the shortcut for any desktop, select it, highlight the current shortcut, and press the new key combo.

Mission Control Shortcuts In the Keyboard preference pane, set a trigger for Mission Control by selecting the first entry in the list on the right. Define shortcuts for individual desktops further down in the list.

your arrow cursor is up against the edge of the screen (a caveat: this may not work in all apps). Hold it there for a second, and you’ll experience a breakthrough: The desktop that’s “waiting” in that direction slides on screen with the dragged window on it.

Q: I have a really big screen, so I don’t like dragging windows between desktop spaces. Is there a quicker way?

A: Just grab the window by its title bar as if you were going to move it, and press the keyboard shortcut for moving left or right in your desktop lineup; the defaults are Control–Left Arrow and Control–Right Arrow (again, this may not work in every app).

Q: When I want to delete multiple desktops, do I have to hover over one, wait for the close button, click it, and then hover over the next?

A: Isn’t it amazing that a two-second delay can seem so long? Get an instant close button (an X in a circle) on every desktop in Mission Control by pressing the Option key. Then click away, holding Option down for as long as you want the close buttons available.

Sharon Zardetto has been writing about the Mac since it could run only one application at a time and thinks she and it have both greatly improved with age.

GreenSmart’s Kea Laptop Daypack

GreenSmart’s \$55 Kea Laptop Daypack, a medium-size backpack with a built-in laptop sleeve and plenty of smaller pockets, is very comfortable to wear, and it’s eco-friendly too, as it’s made from recycled plastic bottles (store greensmart.biz). The backpack has a 14-inch, padded laptop sleeve that’s a great fit for a 13-inch MacBook Pro or MacBook Air. It also includes two smaller mesh pockets (either of them great for an iPhone) and one larger zippered pouch (suitable for your MacBook’s charger). A zippered pocket on the outside of the bag hosts a mesh flap, four slots for cards, two pen slots, and another pocket. GreenSmart’s Kea would be a great option for students who take their laptops to class, or as a carry-on bag—the bag’s comfortable mesh padded shoulder straps and back cushion make carrying it a breeze, and the built-in laptop sleeve keeps your MacBook safe. The Kea is available in Ocean Blue and Mocha (shown here).—**LEAH YAMSHON**



How I Name Files on My Mac

Here's how one efficiency fan takes charge of the chaos

BY DAVID SPARKS

Once, I actually named my scanned water bill **Invoice.pdf**. What was I thinking with a name like that? Looking at my water bills folder, I saw no standard naming format; I couldn't tell if some of the files, such as **Invoice.pdf**, were even related to the water utility. To make matters worse, my telephone, electrical, and waste management folders for the same year also had files in them called **Invoice.pdf**. So I had multiple documents from about the same time with exactly the same name. Just swell. Here are some lessons on file organization from a reformed sinner.

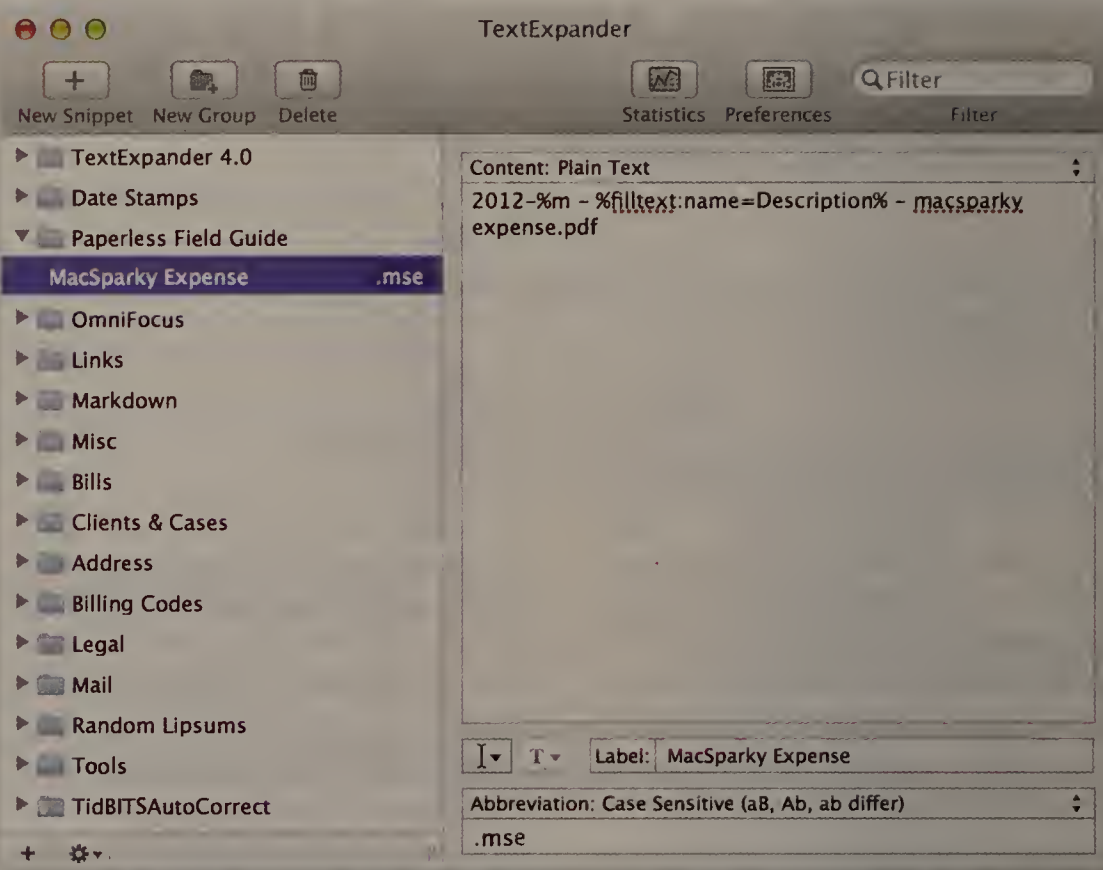
Keep Filenames Descriptive and Consistent

Take some time setting up your filename taxonomy. Make sure you're comfortable with your rules, because you're going to be living with them for a long time. Changing conventions midstream is a lot harder than doing so at the beginning.

Include the Date Make the first part of every filename the date in a YYYY-MM-DD format. For example, November 12, 2012, appears as **2012-11-12**.

This format is really computer friendly. If you have 30 files named this way and you sort them by name, your computer automatically sorts them in date order. I use a hyphen between the year, month, and date, as shown above. If the date or month is a single-digit number, I always use leading zeros (01 for January, not just 1). If you don't use leading zeros, the sort order gets wonky.

Use the Right Date The next question is *which* date to use. One possibility is



Automate Naming Using TextExpander, it's easy to make sure your filenames are structured consistently.

the date you created the file. But that often doesn't make sense. For example, someone may sign a letter to me on May 18, which gets delivered on May 23 and scanned on June 5. Saving it as **2012-06-05** isn't very helpful. The proper date to use in the name is

example, **2012-05-15 - property insurance declarations** or **2012-05 - water bill**.

For correspondence, I put the name of the sender and recipient after the date, separated by an arrow (->), and then followed by **re-** (for *regarding*)

Make sure you're comfortable with your rules, because you're going to be living with them for a long time.

2012-05-18. For recurring monthly invoices, I leave off the day and use a YYYY-MM format: **2012-05 - electricity bill**, for example.

Add Descriptive Text After the date, I enter a space, followed by a hyphen, followed by another space. You could skip this and simply use a space, but I prefer the extra space and hyphen for readability. Next, I try to describe the document—for

and a brief explanation of what it's about. So, for example, a letter from Brett Terpstra to me on May 16 about a new iPhone gets named **2012-05-16 - terpstra->sparks re-iphone.pdf**.

Use All Lowercase If you start capitalizing letters, you'll end up with inconsistent names, or you'll spend a lot more time than necessary keeping

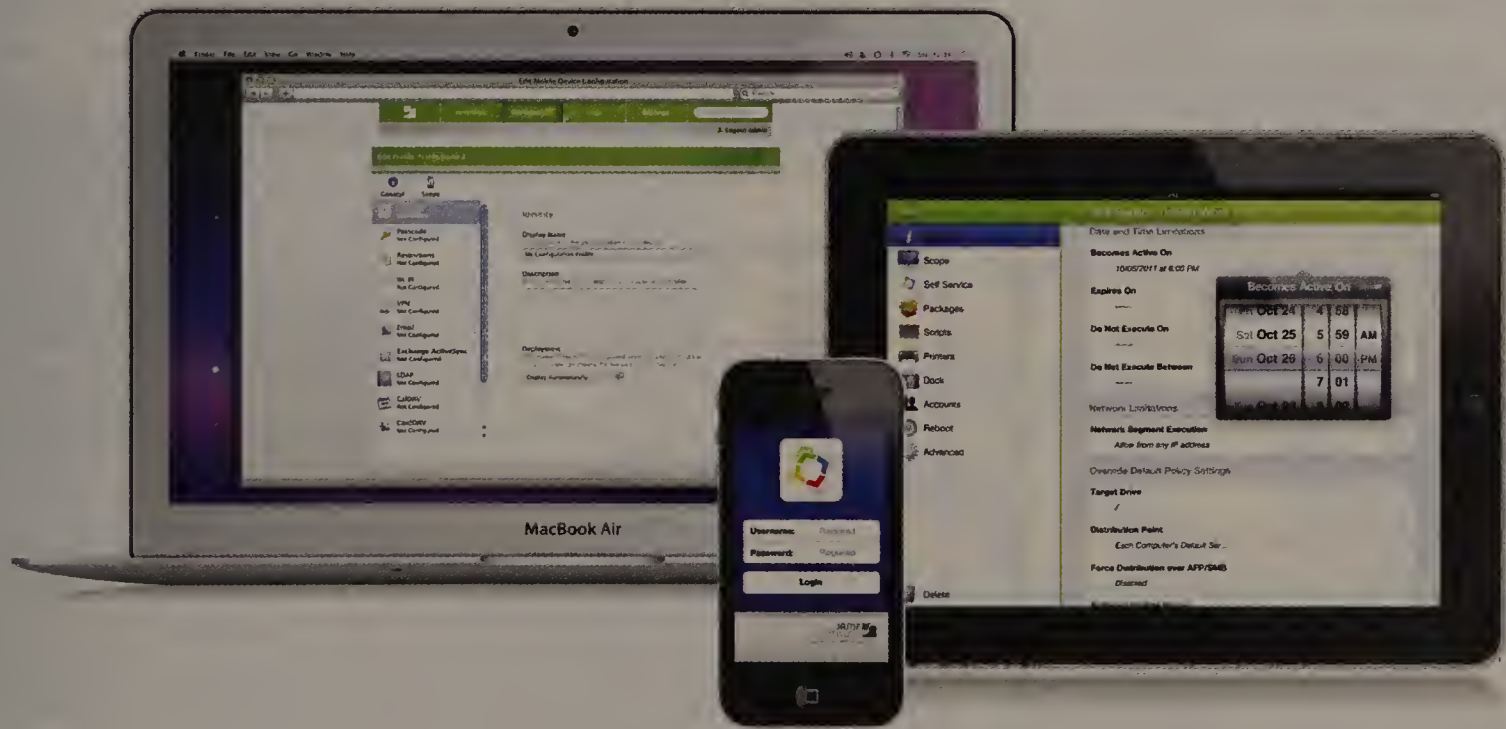


This article is based on an excerpt from David Sparks's self-published ebook, *Paperless* (2012), available from iTunes or as a PDF from www.macsparky.com.

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your scheme straight. Just stick with lowercase and forget about it.

Make the Process Easier

Consistent file naming is a big deal. Whenever you hear the word *consistent* in relation to a computer task, you should consider automation. An Automator workflow can rename files when you first create them. But that's not the only way to help yourself out.

Rename in Batches If you have a large group of files to name or decide to change your file-naming conventions, you could open and manually rename each file, but that would drive you nuts. In those cases, a renaming app makes a lot more sense. Several applications are in the Mac App Store. I use Avery deGruchy's *Rename It* (\$1; macworld.com/7843).

Automate Naming as You Go

Smile Software's \$35 *TextExpander* (★★★★; macworld.com/a/1150864) is one of my favorite productivity apps. While most users think of *TextExpander* as a way to replace a few words with long snippets of text, it's also useful for inserting small snippets. When you use the app to name files, it helps ensure that you do the same thing each time.

TextExpander can automate date entry. You can set up a *TextExpander* snippet so that you type in an abbreviation instead of the date; *TextExpander* replaces the abbreviation with the date in the YYYY-MM-DD format. I've set up *TextExpander* so that whenever I type the shortcut **.ds** (meaning "date stamp"), it inserts the current date.

Go further by creating custom snippets for specific documents. For example, I have a snippet, triggered by typing **h2obill**, that automatically inserts the current year and month and the words **- water bill**. (For more about using *TextExpander*, see "Favorite Text-Expansion Tricks" at macworld.com/a/1161894.)

Take some time to look at the kinds of documents you routinely file and set up appropriate snippets for them. A little preparation pays dividends quickly.

David Sparks is a practicing attorney, the editor of the MacSparky blog, and a cohost of the Mac Power Users podcast (macpowerusers.com).



Turn Any Desk into a Standing Desk

Portable, adjustable stands offer an affordable option

BY GLENN FLEISHMAN

REVIEW

Finding a stable surface at the right height for working comfortably can be a challenge. Uncaged Ergonomics' WorkEZ line of portable, adjustable stands makes it possible to try a standing-desk setup without spending money on a new desk. These flexible packages also let you switch easily between standing and sitting.

Tabletop Options

I reviewed the \$130 Executive Standing Desk combo, which consists of the Executive stand for your laptop or tablet, a stand for your keyboard (I opted for the more compact Professional version for an extra \$5), and a Mouse Pad. Each stand comprises a flat platform with a pair of three-segment, articulated legs that lock independently at 15-degree intervals. That means you can pretty much take your pick of positions as long as you keep the sides balanced.

You can use either stand, or both stands together, to create a portable standing desk on top of a regular desk or table, or to provide a solid work base while you're sitting on a chair or couch. You can lock each joint into any of 24 positions; with three joints in each leg, that allows you to employ the stands in many ways. One downside: Even though the joints have numbered degree indicators, I found it difficult to re-create a particular position I liked or get both sets of legs to the same place again.

The stands are surprisingly light, at 4 pounds for the Executive and 3 pounds for the Professional, and they fold up compactly enough to lug around. In fact, I'm surprised Uncaged doesn't offer a custom carrying bag of some sort because they're too large to put in a backpack.

Macworld's Buying Advice

I recommend the individual stands for anyone who regularly needs to set up a good place to work where the available furniture or surfaces are poor options. I really like the Executive Standing Desk combo as an inexpensive way to try out the standing-desk experience without having to purchase a new desk. Its modular design means you can also move one or both stands to work in a sitting position.

Glenn Fleishman, a senior contributor to *Macworld*, walks 3 to 6 miles a day on his treadmill while typing, and stands for much of his working day.

★★★★: \$130; Uncaged Ergonomics; www.uncagedergonomics.com

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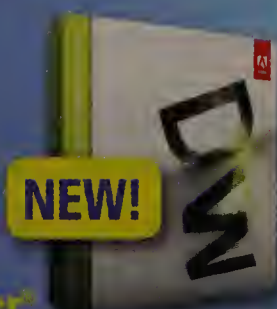
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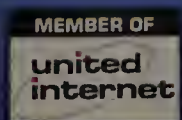
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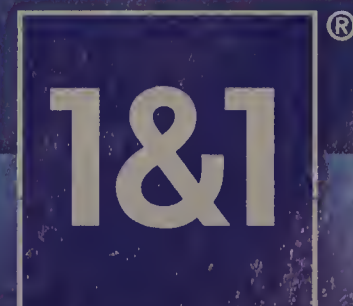
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Your Online Meeting Room

How to get started with Google's free, simple videoconferencing service

BY SERENITY CALDWELL

Google+ Hangouts, Google's online video-chat technology, offers a simple way for people to get together and meet, no external software required. The video service also integrates with Google's other free tools, so that you can talk while working with others on a Google Doc or share a computer screen when troubleshooting.

Start a Hangout

Most online chatters are familiar with using Skype (www.skype.com) or Apple's iChat, but Google+ Hangouts eschews the separate software requirement in favor of browser-based videoconferencing. This helps keep Google+ Hangouts simple for participants and makes it possible to chat

without difficulty even if people are on other platforms, such as Windows.

To start a hangout session, you need a Google+ account. If you already have a Gmail account or another Google service account, those credentials will work once you visit plus.google.com and set up a few additional things.

If your company has a Google Apps account, you need your administrator to turn on Google+ for all accounts before you can use the service; otherwise you'll just receive an error message.

Once you're on the Google+ website, click the Hangouts button on the left toolbar. This section allows you to start talking with friends and coworkers and join hangouts in progress. Click Start A

Hangout to begin. (You may have to download Google's voice and video plug-in from macworld.com/7841 before you can create one.) In the Hangout tool, you'll see a directory of all your contacts on Google+, along with a preview of your video feed. Invite up to nine people.

You can add contacts from Google+, or add whole circles so that you don't have to type people's names individually. You can even initiate a voice-only telephone call-in—though you can currently have only one active telephone call. This is an easy way to hold meetings with scattered workers or clients.

If this is a hangout you'd like to broadcast live and record, enable Google's Hangouts On Air feature



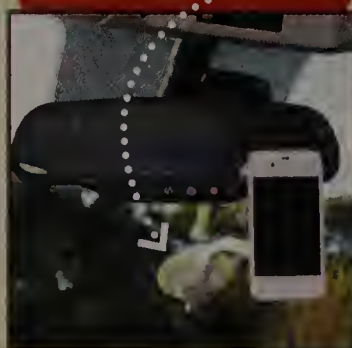
AppleMount.com

NO brackets or clips.

Mounts in seconds & removes in one!

- Our tablet mount is built around the most technologically advanced vacuum mount on the planet. These mounts are surprisingly powerful and have a history of use in critical applications like holding dive tanks secure on boats, attaching bike racks to cars, and even assisting our military.
- Our heavy duty flex-arm allows you to bend and turn your tablet to get your screen into the perfect position.
- The vacuum mount has a built-in finger pump. Pump it until the orange band disappears, and if it loses any vacuum, the orange band will reappear to let you know that it's time to re-pump it.

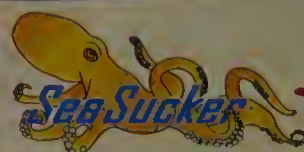
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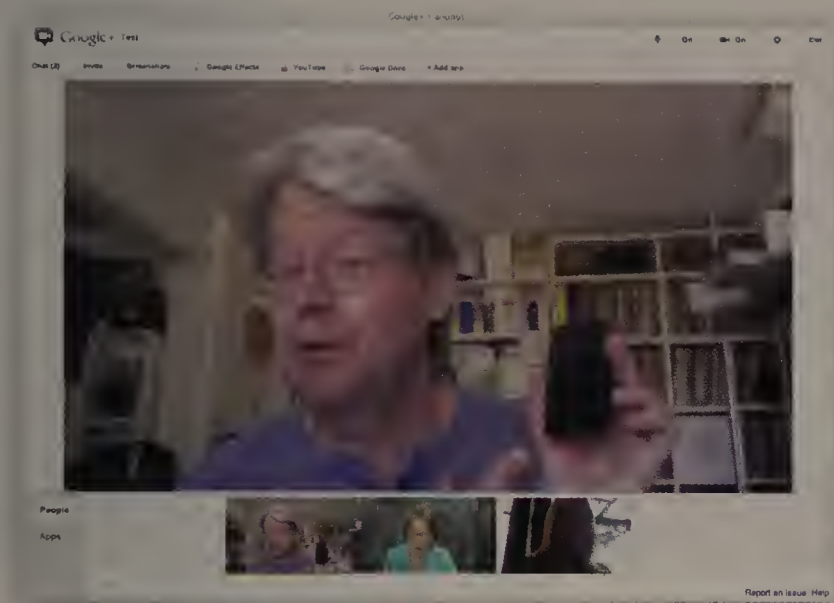


REAR VIEW



PATENT PENDING

Let Your iPad Run Naked!



Getting a Group Together The person who is talking takes center stage in hangouts.

make a text note, add it to the text chat window. All of these options are available from the toolbar along the top of the Google+ Hangout page.

You can dress up your video stream with the Effects options, which pop various hats, monocles, and props on top of your image, scaling them as you move.

Hangout Limitations

The only downside to hangouts at present is that meetings are limited to nine participants, so larger groups may run into trouble when they're trying to chat. Hangouts On Air can get around this constraint, as it allows unlimited participants, but that turns your private meeting into a public, streamed event.

Google+ Hangouts may not be the service you turn to for every video chat and conference need. Still, it offers an easy way for small groups to interact without requiring a lot of setup or additional software.

(macworld.com/7842). It allows an unlimited number of people to join the conversation and records the hangout to your account's YouTube channel.

Inside the Hangout

The main hangout screen shows a row of chat options at the top, a main video

window displaying the currently talking participant, and thumbnails of the other hangout participants below.

Chatting on video may be Google+ Hangout's primary function, but you can also share your screen, work collaboratively on a Google Docs document, or stream a YouTube video. If you want to

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2 Zco designs and develops your app



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REVIEWS

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HARDWARE

D-Link DIR-605L Cloud Router ▴

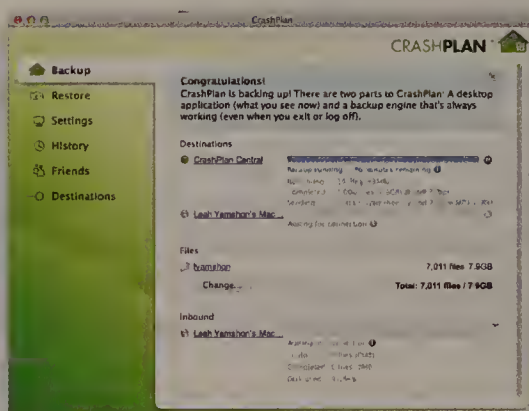
The D-Link DIR-605L Cloud Router isn't a top performer. It lacks 5GHz support, which is particularly disappointing for city dwellers, who often knock each other off the narrow 2.4GHz band. Its two-by-two antenna array supports top speeds of only 300 mbps (new routers with more antennas are rated at up to 600 mbps). Still, this router boasts easy-to-use remote-access features that will appeal to small businesses and consumers who want to keep close tabs on network activity without spending a lot. The Cloud Router supports iPhone and Android apps that let you log in over the Internet and see which devices are connected and which websites they're accessing. If you don't like what you see, you can block connected devices. These kinds of features aren't new, but the Cloud Router and its mobile apps make them easy even for less technical folks. **★★★★½; \$60; D-Link; cloud.dlink.com**

HP ZR2440w 24-Inch LED LCD Monitor ▸

For people willing to pay the price, the HP ZR2440w widescreen monitor is worth the investment. Our testers gave it top marks for image quality, and it offers lots of adjustment and connection options. The HP ZR2440w is as flexible as a yoga instructor—you can raise and lower the screen, tilt it back and forward, swivel it left and right,

and rotate it into portrait orientation. Without such flexibility, you might need risers, a different chair, or a new desk to see it from all angles. The display includes analog (VGA), digital (DVI), and HDMI connectors, as well as an integrated USB hub. It produces brilliant images, it's easy to adjust, and it can connect to your other electronic devices in lots of ways.

★★★★; \$399; HP; www.hp.com



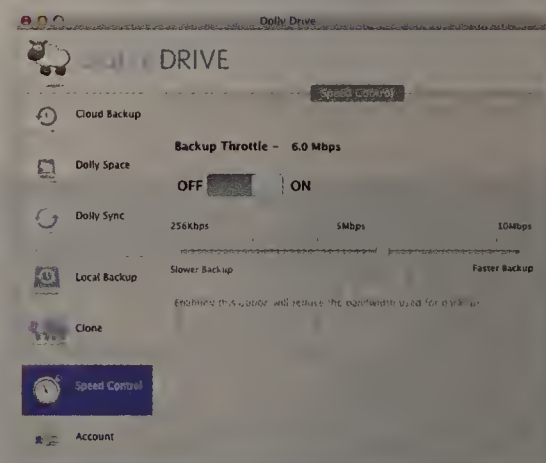
SOFTWARE

CrashPlan+ ▴

If you used Apple's defunct MobileMe, it's time to find a new way to back up your files. Codefortytwo Software's CrashPlan+ is an online backup program that backs up all of your files over the Internet. Your data is stored on CrashPlan+'s servers, and the program backs up multiple versions of your documents. Want to back up your external drive? No problem—CrashPlan+ can do that, too. Backing up to CrashPlan+ is supersimple: Once you've purchased your plan and downloaded

the software, CrashPlan+ automatically runs backups at a specified time. In the case of a crash, or when you're setting up a new computer, there are a few different ways to restore your data: For example, you can do so from the desktop app or through a CrashPlan Central Web Restore. You can also use Web restore from any computer—all you need is a browser. Though there's no limit on the size of individual files you can restore, you're limited to 250MB for a Web restore. CrashPlan+ is easy to use, has a clean interface, and can be customized to fit different backup needs.

★★★★½; monthly fee from \$1.50 to \$6; Codefortytwo; www.crashplan.com

**Dolly Drive** ▴

When Dolly Drive launched in 2010, it was a novel idea: Why not back up your Mac with Time Machine over the Internet? This simple solution conceals a lot of complexity. Its software simulates a disk that Mac OS X believes is a networked volume available for Time Machine backups. Apple's backup processes handle transfers and restores. Dolly Drive competes with hosted Internet backup options such as CrashPlan and Jungle Disk. These services provide their own backup software interface and back-end handling, and often have substantially more settings for determining which files to back up and how frequently. Dolly Drive trades those options for



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DON McALLISTER

- ePubublishing 101
- Reading 101
- It's All About the Numbers
- It's All About the Data
- Whole House Audio
- Location, Location, Location
- Living with the Cloud
- The Power of Speech

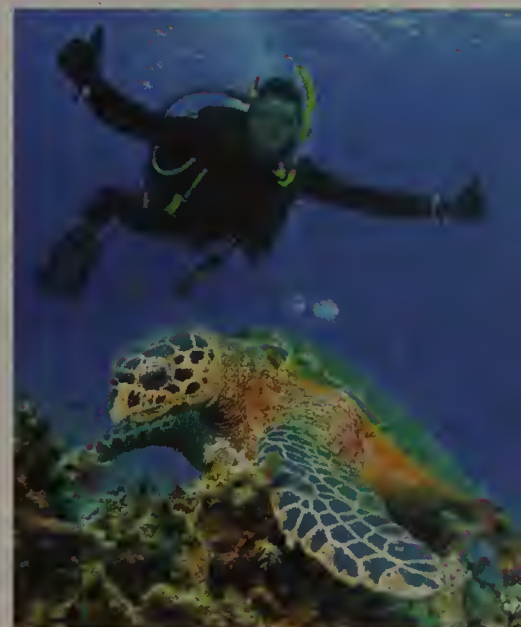
ALLISON SHERIDAN

- Creating Spectacular Documentation
- Turbocharge your Mac Productivity
- First Look at Accessibility on the Mac and iOS
- iOS Productivity Tools
- Video Conversion Made Easy for iOS
- Introduction to Podcasting
- Photography on iOS
- Security on Mac and iOS

SPEAKERS

Wally Cherwinski
Leo Laporte
Don McAllister

Allison Sheridan
Jason Snell
Sal Soghoian



CST# 2065380-40

Botanic Gardens and Taronga Zoo Tour

FULL DAY TOUR

November 6, 2012 (pre-cruise) (\$299 pp; \$199 as an add-on to the Parkes Observatory Tour, at right.)

Your adventure begins with a short transfer to the Royal Botanic Gardens in Sydney. Here you will embark upon a specialized tour to discover all that the Gardens have to offer.

After lunch we move to the Taronga Zoo where you will be met by Zoo Keepers and some of their friendly, cute, and cuddly counterparts before beginning your extended Australian Walkabout Tour. This is an exciting journey with an experienced guide, touring the Zoo's wonderful Australian animal displays.



Parkes Observatory

FOUR-NIGHT PACKAGE & TWO-DAY TOUR

November 3–7, 2012 (pre-cruise) \$1,999 pp based on double occupancy; \$2,599 single pricing. Includes eight meals, four hotel nights, all transportation and hotel transfers, and Observatory entrance fees.

Trip Includes: • Four (4) nights accommodation in the outstanding 4½-star Grace Hotel • Eight (8) meals as indicated per the above itinerary: four (4) breakfasts, two (2) lunches, and two (2) dinners • All land transportation (as listed on the above itinerary) • Entrance fees to all tourist sites (as listed on the above itinerary) • All transport is by 5-star charter coach. A commentary driver will be supplied for the travel to and from Parkes • Baggage handling, city and hotel taxes • GST (Goods and Services Tax)



simplicity. It's also a one-stop solution for local and Internet-hosted backups, synchronization, and remote Finder-mountable disk storage, with a disk-cloning utility thrown in.

★★★★; starts at \$3 per month; Cirrus Thinking; www.dollydrive.com



Dropbox 1.4 ▲

Dropbox is the simplest and most widely used file-synchronization system you'll find that's not attached to a major technology company. When you install Dropbox and log in with your account on multiple machines, the service synchronizes the contents of your Dropbox folder among them. Make a change to a file on one machine in the folder, and Dropbox instantly propagates that change to every other synced machine. Dropbox consistently accomplishes this in a nearly invisible manner. Its free mobile app allows you to browse all available files and store any file you choose locally (the file also remains available in Dropbox). The mobile app displays natively readable file types, such as images, documents, video, and text, in iOS. It can also store other files using the Open In option, which requires that you select the app the file should open in. Dropbox now supports camera uploads via USB, whether from a camera connected via USB, an iOS device, or a memory card in a card reader. Dropbox's weakest feature is the small amount of free storage it offers—2GB, compared with Google Drive's 5GB and Microsoft SkyDrive's 7GB.

★★★★; from free to \$20 per month or \$199 per year; Dropbox; www.dropbox.com

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES Desktop

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
G-RAID with Thunderbolt www.g-technology.com	★★★★	\$1000 (8TB)	quad interface	7856
LaCie d2 Quadra USB 3.0 (pictured) www.lacie.com	★★★★½	\$230 (2TB)	USB 3.0	7855
SoloPro www.iosafe.com	★★★★	\$225 (1TB)	USB 2.0 and 3.0	7136



HARD DRIVES Portable

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
Hitachi Touro Mobile Pro www.touropo.com	★★★★	\$110 (750GB)	single interface	7854
ioSafe Rugged Portable SSD (pictured) www.iosafe.com	★★★★½	\$525 (120GB)	single interface	7559
My Passport Essential www.wdc.com	★★★★	\$75 (500GB)	dual interface	7521



INPUT DEVICES Keyboards, Mice, and More

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
Intuos5 Pen Tablet intuos.wacom.com	★★★★½	\$336	pen tablet	7695
Magic Trackpad www.apple.com	★★★★	\$69	trackpad	6436
Wireless Solar Keyboard K750 (pictured) www.logitech.com	★★★★	\$60	keyboard	7560



PRINTERS Laser

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
5130cdn (pictured) www.dell.com	★★★★½	\$1230	LED, color	6009
C544DN www.lexmark.com	★★★★½	\$315	LED, color	4356
Color LaserJet CP2025dn www.hp.com	★★★★	\$450	LED, color	4823



PRINTERS Multifunction

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
OfficeEdge Pro5500 (pictured) www.lexmark.com	★★★★	\$230	inkjet	7694
Pixma MG6120 www.usa.canon.com	★★★★	\$114	inkjet	7254
WorkForce Pro WP-4540 All-in-One www.epson.com	★★★★	\$290	inkjet	7857

¹All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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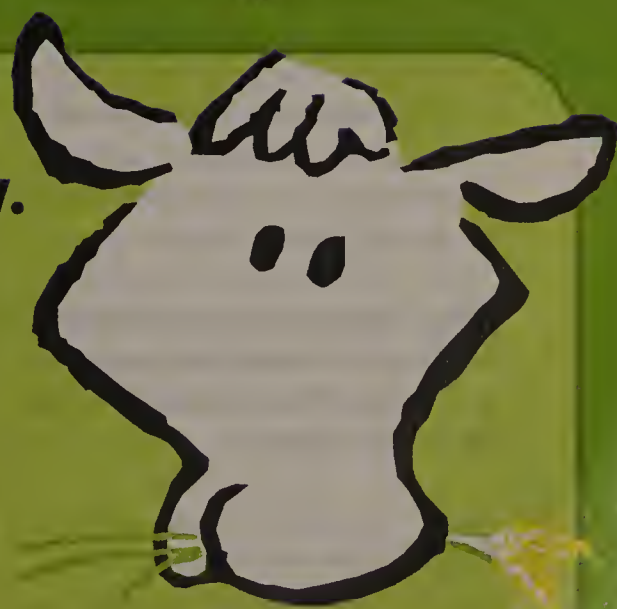
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PLAYLIST

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

Ask the iTunes Guy

All about smart playlists, metadata, sorting, and sharing

BY KIRK MCELHEARN

Q&A

In this installment of *Ask the iTunes Guy*, I answer questions about playlists, metadata, sorting, and sharing.

Q: How can I make a random smart playlist that limits the number of tracks included for a specific artist?

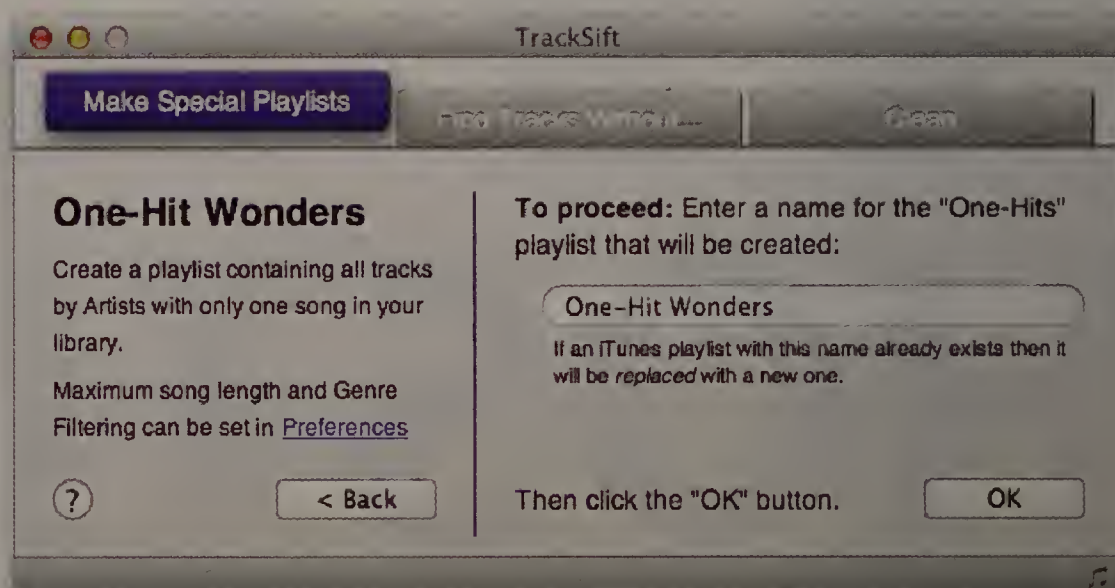
A: Start by making a new smart playlist. Choose File ► New Smart Playlist, or press and hold the Option key and click the gear icon (the plus icon turns into that when you press Option) at the bottom left corner of the iTunes window.

The new playlist defaults to a single condition: Artist Contains. Click Contains and choose Is from the pop-up menu that appears (unless you want to include albums in which there are multiple artists; in that case, leave it as Contains).

Then check the box next to Limit To. The default is 25, but you can change that to any number you want. Click OK to save your smart playlist.

Q: Is there any way I can group all the songs by bands or artists for whom I only have one song in my library?

A: You can't do it with a smart playlist, but Doug Adams's \$2 TrackSift (see "Hidden Treasures," page 32) contains nine tools for crafting playlists you can't create in iTunes, including a One-Hit Wonders playlist. It can also find files that are missing artwork or lyrics, and perform cleaning operations on your iTunes library.



TrackSift This app from Doug Adams has tools that let you create a One-Hit Wonders playlist—the kind of playlist you can't create using iTunes' tools.

Q: I use data from the genre field to make smart playlists. However, it's very tough to deal with songs that belong to multiple genres. Can I work around this problem with keywords?

A: It's true that not all music fits neatly into a genre, but you can use the Comments field to enter specific

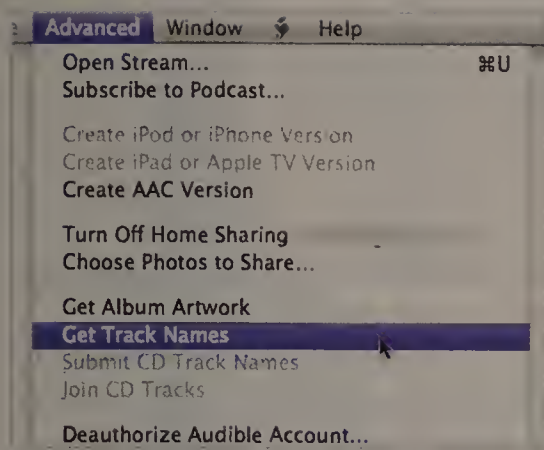
keywords you want to use. For example, if you have a big jazz collection, and your genre for this music is always Jazz, you can add specific keywords such as Holiday, Acid, and/or Fusion in the Comments field for any music you want to categorize in another genre as well.

You can then create a smart playlist for music that matches any of the conditions where, for example, Genre Is Holiday and Comments Contains Holiday. That way you'll get both songs whose genre is Holiday and any tracks with Holiday in the comments.

Q: Is there a way to specify more-sophisticated matching for smart playlists that goes beyond just All or Any conditions? For example, I want to create a playlist containing music in the Rock or Metal genres with a rating greater than three stars. Is there any way to do this?



ILLUSTRATION BY MICHAEL SLACK



Fill In Get Track Names fills in a song's metadata with data from Gracenote.

A: Yes, and it's actually not very complicated. Make individual smart playlists—Rock and Metal, in this instance—in which the playlist matches songs with three stars or greater. Then make another smart playlist with two conditions starting with Playlist Is, followed by the names for the playlists you created earlier.

You can create conditions containing as many playlists as you want, as long as you set the first condition to Match Any Of The Following Rules.

Q: Many of my playlists display different columns. For example, in one playlist the columns might be Album, Name, Artist, and Genre, while in another they're Name, iCloud Status, Artist, and Album. Is there a quick way to make them uniform?

A: Yes, and Doug Adams comes to the rescue again. His Assimilate View Options AppleScript (payment requested; macworld.com/7859) will, as

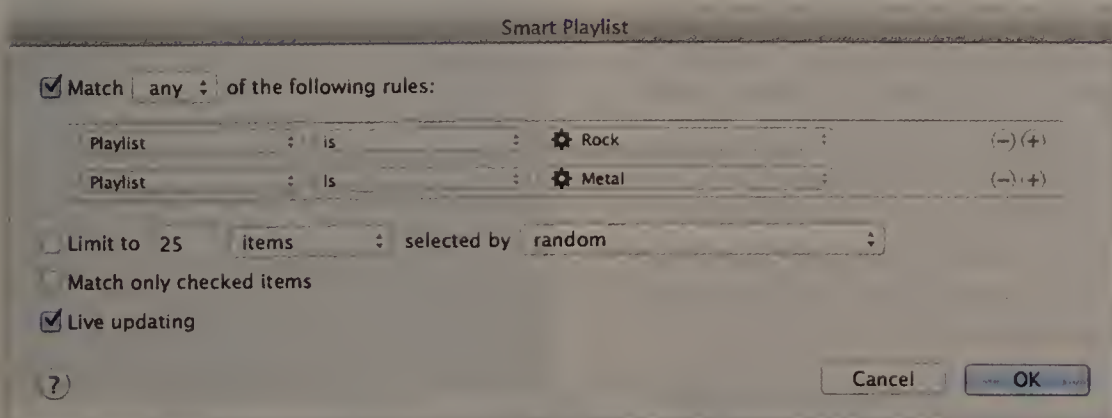
he says, “re-create a selected playlist so its View Options (visible columns) are the same as [those in] the main Music library.” So you can set up the main Music library with the columns you want, and then run the script to reproduce this setup for any of your playlists.

Q: I ripped many CDs into iTunes and changed their genres to categorize my music differently. I would like to be able to select a given album in iTunes and reset the genre to the default information from Gracenote. Is there an easy way to do so?

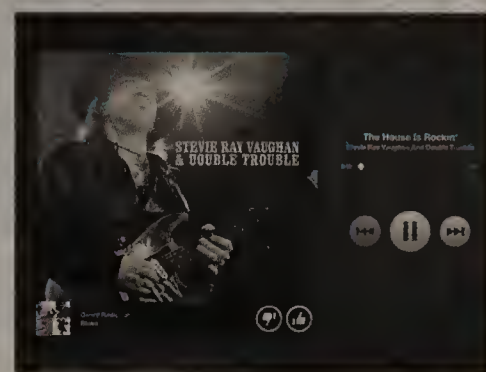
A: If you haven't made other changes to metadata—song names, album names, and so on—you can select any number of items, and then choose Advanced ► Get Track Names. This repopulates all of the metadata fields with Gracenote's information. But keep in mind that it also replaces any changes you made to the original metadata. (Also note that this function only works with CDs you ripped using iTunes.)

You can also manually change the genre of any album. Just select all the tracks in it, press ⌘-I, and type a new genre in the Genre field at the bottom of the window.

Senior Contributor **Kirk McElhearn** (www.mcelhearn.com) is the author of *Take Control of iTunes 10: The FAQ*, second edition (TidBits Publishing, 2012). Have questions? Send them to itunesguy@macworld.com.



Smarter Playlists Combine multiple playlists to create a new smart playlist.



Spotify Takes On Pandora

BY IAN PAUL

Spotify is moving into Pandora-style Internet radio with a revamped iOS app that includes a mobile radio service for paid and free users (www.spotify.com).

Spotify's new service is similar to what it already offers through its desktop app, and it mimics competing services from Pandora (www.pandora.com) and Slacker (www.slacker.com). Spotify's radio feature lets you create a station (essentially an automated playlist) based on a particular artist, song, or genre. You can also base your Spotify stations on one of your own playlists or on a friend's. You don't get to pick the songs, but you can skip over songs you don't like (you can't backtrack through the list, however).

Free-User Limitations

Spotify's radio stations allow users unlimited listening. You can also “like” a particular song to add it to a Spotify playlist for later listening—which means users of the free service can basically bookmark a song to listen to it later in the desktop app. Premium users already have full, immediate access to Spotify's mobile service, including playlists and full albums.

Spotify says there are no skip-track limits for paid subscribers. But free users get only a limited number of skips “in line with industry standards.” Given that the Pandora and Slacker free services limit skips to six songs per station per hour, Spotify's free users will likely be similarly restricted.

First Look: Amazon Cloud Player App

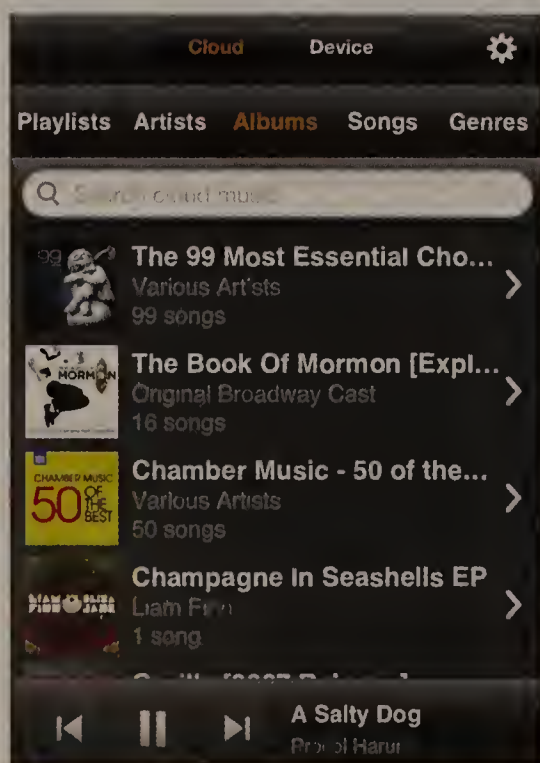
BY CHRISTOPHER BREEN

In a world that's dominated by Apple's media technology, other means of purchasing and consuming media sometimes get overlooked. One such option is Amazon MP3 (macworld.com/7861) and its accompanying Cloud Player (macworld.com/a/1158943).

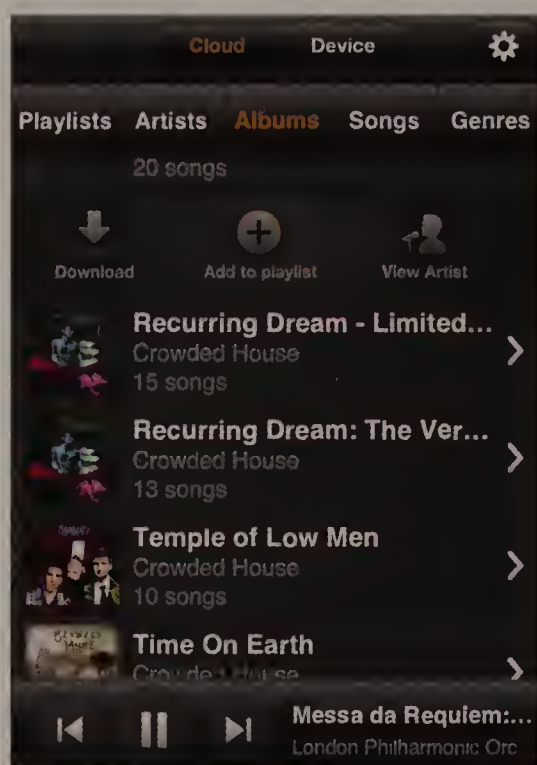
Access Amazon Music

Amazon provides 5GB of free storage through its Cloud Drive service. Tracks you purchase from Amazon MP3 are also available via Cloud Drive but don't count against the storage limit. Buyers of a storage plan (starting at \$20 per year for 20GB) can upload and access an unlimited number of tracks.

Accessing that music is much easier thanks to the free Amazon Cloud Player (macworld.com/7862). The app allows you to not only play and download the music stored on your Cloud Drive, but also play any music stored on your iOS device—music you've transferred to your iPhone, iPod touch, or iPad for use in Apple's Music app, for example.



Familiar Interface The Cloud Player app is easy to navigate.



More Options Swipe items to the right to see additional options.

To play a track, just tap it. If it's stored in the cloud, it streams to your device. Within the app's settings you can choose to stream only over Wi-Fi—a good idea if you have a limited data plan. Swipe an entry left or right to find options for downloading that item, adding it to a playlist, or viewing all content (albums and songs) from that artist. When you choose to download something, the number of currently downloading tracks appears next to the Settings (gear) icon.

Similarities to Other Apps

Much as in Apple's Music app, you can view a list of an album's or playlist's tracks by tapping a List button in the upper right corner of the display. Within the Now Playing screen, you'll also find controls for shuffling and repeating tracks; you can choose to repeat everything or just the currently playing track. Like the Music app, Cloud Player supports AirPlay. You can show the Now Playing screen by tapping the play controls at the bottom

of the display; to hide it, you simply tap a Hide button.

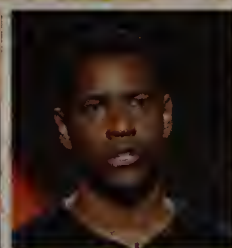
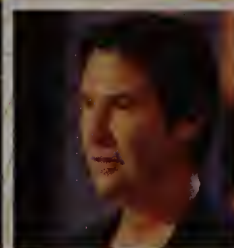
The Cloud Player app can't display or stream music stored in iCloud. However, if you launch Apple's Music app, and then download iCloud tracks to your device, those tracks appear in Cloud Player. The app refreshes its library every five minutes by default, but you can force-refresh by tapping the Settings icon, and then tapping the Refresh Cloud Library entry in the resulting screen. Contrary to what you might expect from the name, this option also refreshes locally stored content.

Also worth noting in the Settings screen are options for autodownloading any Amazon MP3 purchases (this applies to future purchases rather than those you've already made) and an Add Playlists From Device command, which copies any iTunes playlists stored on your device to the Cloud Player app.

And that's pretty much it. It's a simple app that provides a much-needed convenience for users of Cloud Player.



What's On The Now Playing screen displays album art and playback controls.



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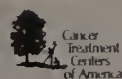
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REVIEWS

Home Entertainment Hardware,
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HARDWARE

JBL OnBeat Xtreme △

The OnBeat Xtreme is a Bluetooth-enabled dock-cradle speaker system for the iPod, iPhone, and iPad. So that it can be all things to all devices, the Xtreme ships with a pair of adapter clips for its cradle. Its appearance might not suit everyone, but even if you like the futuristic look, you should ask yourself how you intend to use the system. If you like to frequently pop iPhones and iPads in and out of compatible speaker docks for charging and music playback, the OnBeat Xtreme is certainly not ideal—you're not going to want to pry off a clip and put a different one on it each time you switch devices. But if you plan to dock a single device or to primarily use Bluetooth playback—and you don't begrudge the Xtreme's lack of AirPlay support—it's a great-sounding speaker, albeit one with mediocre controls.

★★★★; \$500; JBL; www.jbl.com

Sonos Sub ▷

More than just a subwoofer, the Sub incorporates into existing

powered Sonos configurations to add a rich bottom end to your streaming music. To configure the Sub to join a Sonos network, simply fire up a Sonos hardware or software controller, select the option for adding a Sonos component, and push the Sub's



single button. The controller adds the Sub to the Sonos network and walks you through the setup. You can pair it with the Connect:Amp, ZP120, and ZP100 powered components, as well as the Play:5 (aka ZonePlayer S5) and Play:3. It doesn't work with the nonamplified Sonos Connect, ZP90, or ZP80 units. What makes the Sub most attractive is the relationship engineers have crafted between it and other Sonos components: Sonos powered speakers sound their best when you add a Sub to the mix. If you own a couple of Play:3 or Play:5 units and feel like the music coming from them lacks range and definition, adding a Sub could improve the sound greatly—you'll get the lows you've been missing, and the Play units can concentrate on delivering bolder mids and highs, resulting in a better audio experience. If you have great speakers, however, you might not need the Sub.

★★★★½; \$699; Sonos; www.sonos.com

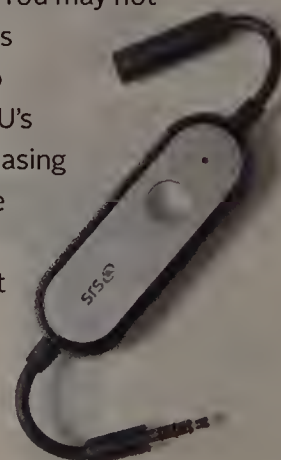
SRS Labs iWow-U ▷

Intended for use with headphones, speakers, and car audio systems that

feature an analog input jack, the iWow-U is a one-button dongle with a 3.5mm input jack dangling from one end and a 3.5mm output plug hanging from the other. You can use it with devices such as portable music players, mobile phones, and home audio components. The iWow-U increases the volume of the original output and emphasizes particular frequencies. It also widens the stereo soundstage so that you perceive more space and depth; it's audio trickery, but there's nothing really natural about recorded music to begin with—decisions that affect sound are made throughout the recording, mixing, and mastering process. You may not like the effect, so it's worth your while to audition the iWow-U's sound before purchasing the device (or make sure that you can return it if you don't care for its audio).

★★★★; \$70;

SRS Labs;
www.srslabs.com



iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE ¹	DISPLAY	PERFORMANCE	FIND CODE ²
iPod Classic	160GB	★★★★	\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	S262
iPod Touch	8GB	★★★★½	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6SS3
	32GB	★★★★½	\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6SS4
	64GB	★★★★½	\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6SSS
iPod Nano	8GB	★★★★	\$129	1.5-inch color	24 hours of music playback; 5 hours of video playback	6SS1
	16GB	★★★★	\$149	1.5-inch color	24 hours of music playback; 5 hours of video playback	6SS2
iPod Shuffle	2GB	★★★★	\$49	none	15 hours of music playback	6SS0

¹ All prices are Apple's prices. ² In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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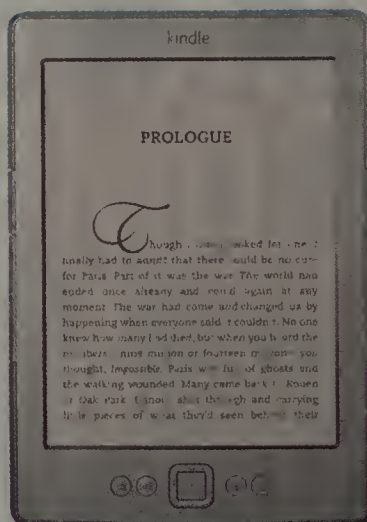
Macworld **HOT STUFF**

What We're Raving
about This Month



Elgato Game Capture HD

Capturing your gaming exploits and posting them online for others to marvel at has become a lot easier with the release of Elgato's \$200 Game Capture HD. The shiny black box, about the size of a portable USB hard drive, works on both OS X Lion and Windows 7 to capture footage from the iPad, PlayStation 3, Xbox 360, and other HDMI-enabled devices, and captures at up to 1080i resolution from sources that do not have HDCP copy protection. The software includes simple editing capabilities and lets you share your feats directly to YouTube, Facebook, and Twitter; export them to Apple TV, iPad, and iPhone; and send them via email. Additionally, you can send them to iMovie or save them to your Movies folder—useful when you want to perform more-advanced editing outside the software. The device also has a handy Flashback recording feature, a buffer that records what happens after you launch the app but before you click the record button. You can then scroll backward and start your capture from an earlier point—handy if your timing was off by just a little bit (www.elgato.com).—JONATHAN SEFF



Kindle Software 4.1.0

Amazon's latest software update for the fourth-generation Kindle—the non-touchscreen version without a keyboard (\$79 with ads, \$109 without)—brings a number of improvements. The update includes an improved font that Amazon says is higher contrast and crisper for a better reading experience. The software update also adds support for new book types: Books with complex layouts, books using Kindle Format 8, children's books with Kindle Text Pop-Up, and comic books with Kindle Panel View will all work with the 4.1.0 update installed (www.amazon.com).—LEX FRIEDMAN



Pure Contour 200i Air

The \$250 Contour 200i Air is a docking speaker system for iPods, iPhones, and iPads—and it's one of the least expensive AirPlay-enabled speakers we've seen. The 200i Air comes with twin bass ports and pumps out 36 watts of sound, and it can play Internet radio stations via your Apple device using the company's free Pure Lounge iOS app. The included remote control provides playback control (www.pure.com).—JOEL MATHIS

NuForce Cube

NuForce's \$119 Cube portable speaker has a lot of things going on. It's a portable speaker, an audiophile-grade headphone amp, and a USB digital-to-analog converter, all in one. The two-inch device lets you plug in your iOS device's analog output for bigger out-loud sound or to use power-hungry headphones. And the Cube's digital-to-analog converter feature lets you connect your computer's digital audio for higher-quality speaker or headphone listening. The Cube offers up to eight hours of battery life and comes in black, silver, red, and blue (www.nuforce.com).—JOEL MATHIS



SATECHI BT MEDIA REMOTE

Multi-Touch iOS devices are great, but they still require you to be able to, well, touch them. Satechi's \$40 BT Media Remote solves that problem by letting you select and play content on your iPhone and iPad from a distance using Bluetooth. Not only can you play music and video using the remote, you can also activate Siri on the iPhone 4S, as well as press the Volume Up button to trigger the camera shutter on your iOS device. And the remote works as a presentation tool, letting you navigate through slides displayed on Bluetooth-enabled Macs. One set of batteries should power the BT Media Remote for up to six months (www.satechi.net).—JOEL MATHIS

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Get Started with iPhoto for iOS

iPhoto for iOS is one of the most powerful photo-editing apps available for the iPhone and iPad

BY ALEXANDRA CHANG

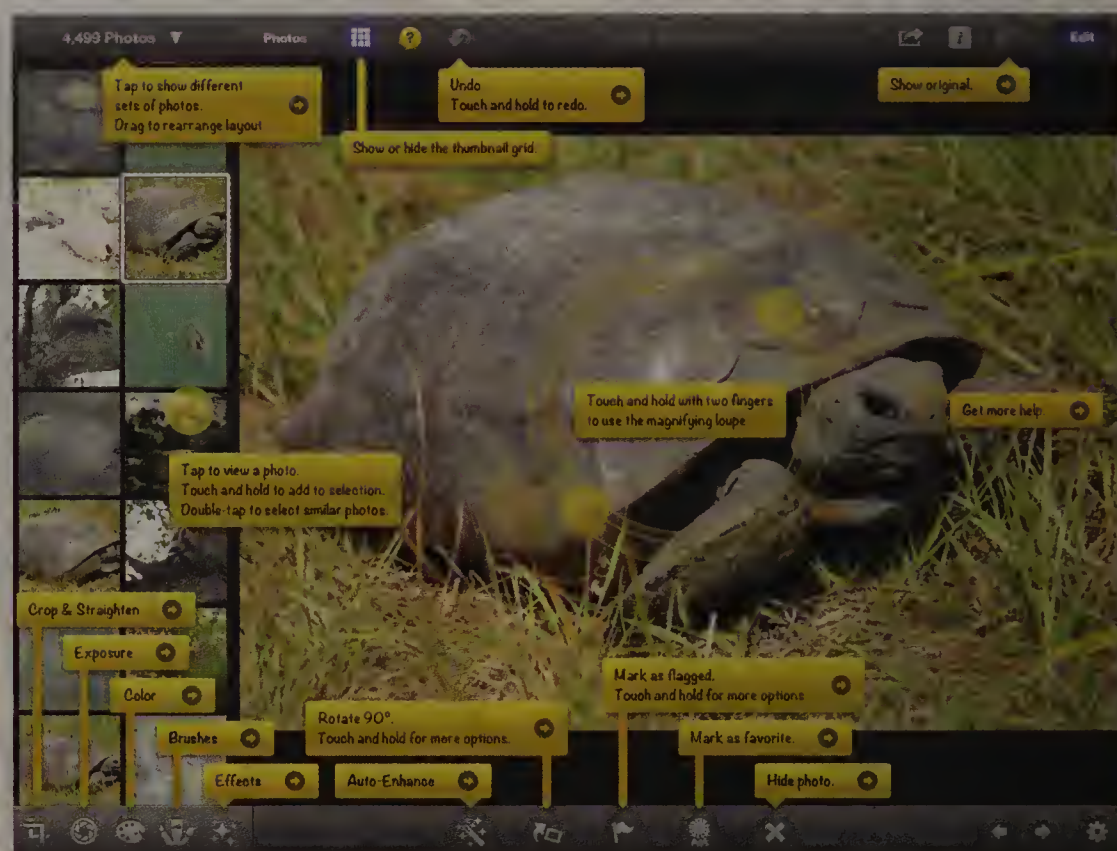
Half the fun of iPhone photography is editing your photos in various photo apps. And with iPhoto for the iPhone and iPad, users have a great all-in-one photo-editing tool at their fingertips.

iPhoto is one of the most packed and powerful iOS photo apps out there, so there's a slight learning curve when you're using it to spruce up your photos. Here's how to use some of the app's tools to make basic edits. Instructions are based on the iPad version of iPhoto for iOS, but it's easy to extrapolate the same techniques to the iPhone 4 or 4S.

Navigate the Edit Toolbar

To enter Edit mode, tap the Edit button in the top right corner while viewing a photo. An editing toolbar appears on the bottom of the screen. To remove the thumbnails and get a full-screen view of the image you're editing, tap the thumbnail icon (which looks like a grid) in the top left corner. This makes the screen less cluttered so you have more space to work.

All of the tools you need to make basic edits are in the editing toolbar below your photo. In the center, you find basic editing tools and a few



Deciphering the Icons Tap the Help icon (the question mark) to see tips for all controls.

change color balance, and more. These tools are organized in an intuitive order.

When you tap a tool, the middle of the editing menu changes depending on what tool you select. For instance, if you tap the Crop & Straighten button, you'll see a dial that you can tap and

double-tap the button of the tool you're currently using.

At any point, you can tap the gear icon in the lower right corner to adjust tool settings. When you're not using a specific tool, you can tap the gear icon to find the following controls: Select Multiple; Copy Exposure, Color And Effect; Paste Exposure, Color And Effect; and Revert To Original. If you forget what a certain iPhoto button does, tap the Help button (the question mark in the main menu at the top left) at any point, and the app reveals labels and tool instructions.

Make Quick Fixes

Most photos don't need heavy editing before you can share them with others,

It's often hard to find the exact spot in a photo that will reveal specific controls when you're using Multi-Touch gestures.

buttons that allow you to label your photos for organizational purposes.

On the left of the toolbar are iPhoto's Multi-Touch editing tools. You can crop and straighten photos, adjust exposure,

drag to straighten your photo interactively. After you apply an edit, a blue glow appears above that tool, showing that you've used it to make an edit. To go back to the original editing menu,

post them to Instagram, or use them in an iPhoto journal. The fastest way to give your photo an all-over edit is to use the tools available in the middle of the editing toolbar. iPhoto for iOS features two quick-fix edits: Rotate and Auto-Enhance.

Rotate does exactly what its name states: It rotates your image in 90-degree increments. By default, the Rotate tool turns your photo clockwise. To rotate your photo counterclockwise, tap and hold the Rotate button until a menu opens, and then tap Rotate Counterclockwise. This changes the default rotation to counterclockwise.

Auto-Enhance lets the app do all of the editing magic. Tapping the button automatically adjusts the exposure and colors of your image. Most of the time the results are great. But if you don't like what Auto-Enhance has done, you can always tap the Undo button in the top (main) menu. To see exactly what iPhoto has done, tap the Exposure and Colors tools (using Auto-Enhance makes the buttons on both of these tools glow blue).

Crop and Straighten

When you use the Crop & Straighten tool, you'll see a straightening dial at the bottom and a grid overlay for applying the rule of thirds.

You can crop and straighten your photo with Multi-Touch gestures, using the Crop & Straighten tool on the far left of the editing toolbar. When you launch the tool, a dial appears in the center of the toolbar. Swipe left or right to straighten a photo. You can also activate your iOS device's gyroscope by tapping the dial,



Living Color Drag on the icon horizontally to adjust hue, vertically for saturation.



Crop and Straighten Drag the dial left or right with your finger to straighten the image, and then crop or make other edits to the photo. Tap the dial, and the dial turns blue, signaling that you've enabled the device's gyroscope.

and then straighten your photo by rotating your device. To crop an image, use the pinch-to-zoom gesture.

Adjust Exposure

If you used the Auto-Enhance tool but aren't totally satisfied with the results, you can make changes by going to the Exposure tool in the editing menu. This tool lets you adjust shadows, contrast, brightness, and highlights. When you tap the Exposure button, a slider appears in the middle of the toolbar. There are two ways to adjust the image: You can use Multi-Touch gestures directly on the image, or you can adjust using the slider.

Tap and hold on an area of your image, and the corresponding exposure controls appear. For instance, if you tap and hold on a shadowy part of your image, you'll see arrows pointing up and down for adjusting shadows, and arrows pointing left and right for adjusting contrast. Swipe your finger up and down, or left and right, to adjust these controls.

It's often hard to find the exact spot in a photo that will reveal specific controls when you're using Multi-Touch gestures. This is where the slider can help. You can adjust highlights just by sliding the far right control to the left or right. Moving the slider more to the left darkens the highlights in your photo. Sliding the contrast circles further away from each other creates more contrast. Sliding the brightness control more to the right makes your photo brighter. And

sliding the shadows control to the right lightens the shadows in your photo.

The Right Color

The Color tool makes it possible to adjust the color balance in your photo. As with the Exposure tool, you can alter the color by using Multi-Touch gestures or by simply sliding the four sliders—Saturation, Blue Skies, Greenery, and Warmth—in the editing menu. For basic edits, Saturation is probably the only adjustment you need to make.

You can change the white balance of your photo with the White Balance button. Once you tap that button, nine icons appear, each representing a different lighting environment. The first option is to keep the photo's original white balance. Other options are Sun, Cloudy, Flash, Shade, Incandescent, Fluorescent, Face Balance, and Custom. The Custom option brings up a magnifying loupe that lets you select a part of the photo that should be white or neutral gray, and the app adjusts the rest of the color accordingly. Under the Gear icon, you can switch the Preserve Skin Tones button on or off to adjust colors without affecting skin tones.

View the Result

Once you've made basic edits and are satisfied with the results, you can exit Edit mode by tapping the Edit button at the top right. The editing toolbar disappears, and you're back in Viewing mode, with your newly edited photo on the screen.

Images to Movies: How to Transform Your Photos into a Motion Picture

BY JEFF CARLSON

When reviewing photos using the LCD on the back of my camera, I find it fun to hold down the navigation button and let the camera quickly zip through all the images. Especially since I frequently shoot in burst mode—holding the shutter button to shoot several shots in succession—the effect is enticing, almost like watching a stop-motion animation movie.

So on my daughter's birthday, I thought, why not try to achieve the same effect on the Mac? Instead of pulling out just a handful of really good photos, I'd combine them all to make a movie that resembled the experience of scanning all those shots on the camera.

Build in iMovie

Here's how to do it.

1. Import the photos into iPhoto, where they appear grouped into a new event.
 2. In iMovie, create a new project.
 3. Choose File ► Project Settings (or press ⌘-J).
 4. Set the Initial Photo Placement setting to Fit In Frame. This ensures that you see each image in its entirety, regardless of whether the photos are a mix of landscape and portrait orientations.
- You can also choose Crop to remove any black borders from the images, but that setting could lead to odd framing, especially for portrait images. (You can change these settings later if you want.)
- You might be tempted to change the Photo Duration setting here, too, but don't bother. The shortest length is one second, which is too long for the effect I'm going for here. We'll adjust the timing shortly.
5. Open the Photos browser and click the Events item under iPhoto.
 6. Drag the event you created to the Project browser to add the photos to your



iPhoto to iMovie In iMovie, locate the event you created in iPhoto.

movie. Depending on the number of photos in the event, this import step could take some time, so be patient.

7. Double-click one image in the project to open the Clip Inspector. You can also select an image and click the Inspector button in the toolbar, or just press the I key.

8. Set the duration as **0.1s**, and also select the Applies To All Stills option, to adjust the timing of every frame.

9. If you want to change whether the photos are cropped or set to fit within the frame, select all frames (click one, and then choose Edit ► Select All or press ⌘-A), and then click the Crop button on the toolbar. You can then click the Fit or Crop buttons that appear in the Viewer.

Feel free to adjust any of the frames manually. When I set my project to Crop, many of the portrait photos ended up showing just sky. So I simply moved the visible area in those frames to include the action.

Add Music and Titles

When you play the movie, it's just like the experience you have as you shuttle through the shots on your camera. But in this case, you have the potential to create a lot more variety. You can add music or titles, adjust the timing for specific shots, and use any of the other features iMovie offers. And, of course, you can then share the movie with whomever you want.

Master Your Camera's Exposure Modes

BY DAVE JOHNSON

Cameras don't take great photos—but they come with controls that allow people to do so. Unfortunately, it isn't always obvious how to use those settings. Let's look at the most common exposure modes in popular cameras and talk about why you would use each one.

Auto Mode

I probably don't need to say a lot about your camera's Auto mode. If you're new to photography, or just a snapshotter who doesn't want to spend a lot of time thinking about options, you probably leave your camera in this mode most of the time. In Auto mode, your camera chooses the shutter speed and aperture, and it probably automatically increases the ISO in low-light situations. This mode is easy to find—look for the word *Auto* or a green camera icon.

Program Mode

Program mode—almost always identified with a *P*—offers a big step up in terms of photographic flexibility.

In Program mode, your camera still chooses the shutter speed and aperture automatically, but you usually have the ability to control the ISO yourself, which lets you choose when to optimize for higher shutter speeds and when to reduce the digital noise that comes with high ISOs.

Manual exposure mode isn't terribly complicated—it lets you set the shutter speed and aperture independently.

You can also make small adjustments to the shutter speed and aperture without leaving the comfort of a mode that's mostly automatic.

Aperture and Shutter Priority

If you're enthusiastic about improving your photography and taking more-



Get Outta Auto Your camera lets you take great pictures, so take a chance—experiment with some of the other settings.

creative photos, these are the modes that I recommend you spend most of your time exploring. They let you experiment with exposure settings without going all the way to Manual mode.

Aperture Priority (indicated by an *A* or, on Canon cameras, an *Av*) varies the shutter speed automatically as you set the aperture. Shutter Priority (*S* or, on Canon cameras, *Tv*) changes the aperture when you set the shutter speed.

Interestingly, as you'll discover, both of these modes do almost exactly the same thing, so you can choose the one you like best and never mess with the other one. Or you can switch between them depending upon the kind of shooting you're doing.

You might want to go with Shutter Priority when shutter speed is critical, such as when you're shooting sports or other action photos, and use Aperture Priority when you want more control over the depth of field.

Either way, these modes let you vary the shutter speed and aperture without

worrying about accidentally under- or overexposing your photo.

Manual

For the ultimate in control, switch to the big *M*. Manual exposure mode isn't terribly complicated, really—it lets you set the shutter speed and aperture independently. Why would you want to do this? Well, most of the time you don't.

The priority modes are what you want at least 90 percent of the time. Despite what you might think, many pros don't even shoot in Manual mode a lot of the time for routine shots.

But Manual mode really shines in what engineers call the “edge cases”—rare situations in which the camera's exposure meter would tend to get the settings completely wrong. Take nighttime, for example. If you're trying to capture city lights at dusk, ignore the camera's exposure recommendations. Instead, switch to Manual and experiment with very slow shutter speeds.

Scene Modes

Finally, many cameras—especially point-and-shoot models, as well as some entry-level DSLRs—come equipped with anywhere from a handful to dozens of scene modes. Dial in the appropriate scene, and the mode sets the camera's shutter speed and aperture for your specific photographic situation.

Some scene modes do more than that; they might change the flash setting and ISO, and activate other special effects. See your camera's user guide for details.

There are a lot of scene modes to choose from, and many do very specific things. For example, Portrait mode sets the aperture to minimize depth of field, while Night mode might kick in a very long shutter speed.

Sand And Snow mode automatically overexposes the photo to prevent these natural elements from causing your subject to wind up underexposed.

InDesign CS6 Overhauls Digital Publishing Workflow with Versatile Options

BY JAY NELSON

REVIEW

Adobe has a winner of an upgrade in InDesign CS6. The improvements to digital publishing tools and PDF forms authoring, and the numerous workflow refinements, all add tremendous value.

Digital Publishing

The most visible improvements center on digital publishing—converting content for one medium or device to another platform and intelligently linking content between documents, so that changes made in one place are reflected in the other.

In CS6, you can link from one object in an InDesign layout to objects in different layouts in the same document. You can define one frame as a Parent and link it to Child frames in other layouts. If the Parent content changes, the Child items indicate that change with a warning badge so you can update the link and its content. One document may contain multiple layouts, and each layout can have some of its content linked to the other layouts.

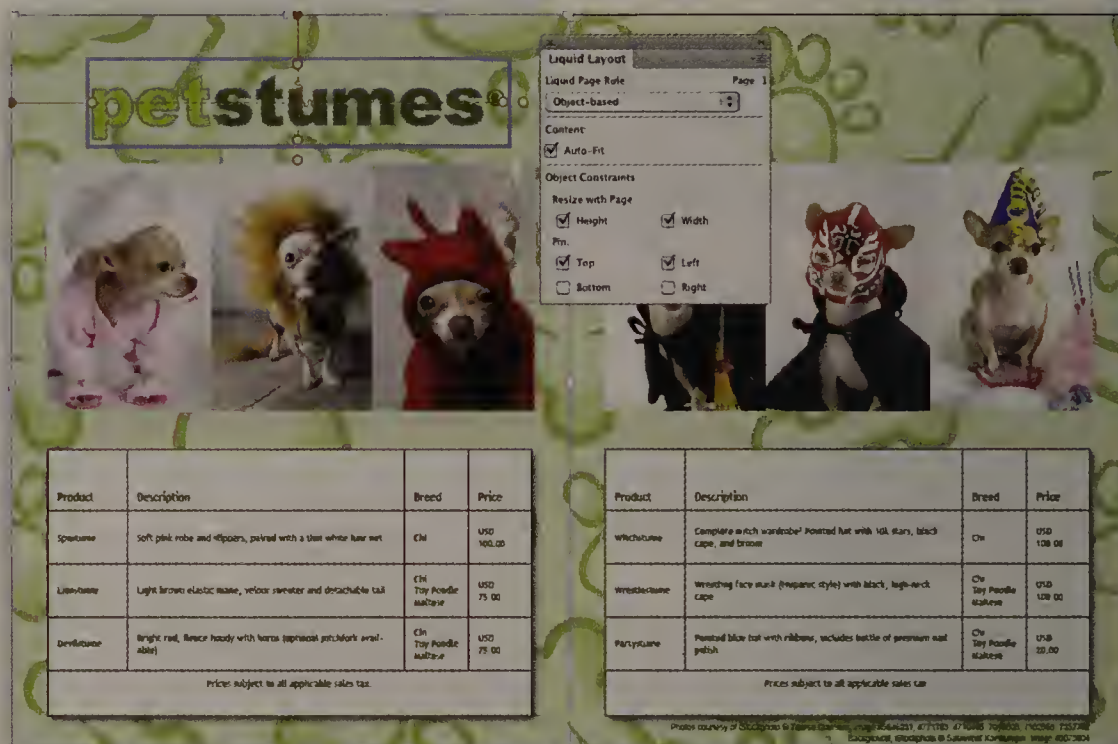
Alternate Layouts

To assist users in generating new layouts based on existing ones, Adobe added the Alternate Layout feature, which creates a duplicate of your original layout. The new Liquid Layout feature helps users

Adobe has improved the output quality for ePub-based readers and has streamlined features for creating ePub-ready documents.

repurpose layouts for different devices, and includes multiple ways to reformat pages. There's a simple Scale technique for resizing items on the page or recentering them on a new page.

🔗🔗🔗; \$699; Adobe; www.adobe.com



Liquid Layout Using the object-based Liquid Layout rule, I've told InDesign that when the page changes size and/or orientation, the Petstumes logo should remain pinned to the top and left edges of the page.

InDesign CS6 provides even more control via object-based layout adjustments. With the object-based Liquid Layout approach, you can pin items to one or more edges of the page. Then, when you resize the page, the object stays the same distance from the edge of the new page as in the original. All the other objects on the page float into new positions as you resize it. The Liquid Layout approach is just a starting

Content Placer tools work together to help you collect items for repurposing, reuse in different parts of the document, and efficient placement. The Content Conveyor lets you collect objects from a page and place them into other pages or layouts. You can link to the original objects and map original text styles to new ones.

These features reflect the popularity of content creation for tablets. Adobe has improved the output quality for ePub-based readers and has streamlined features for creating ePub-ready documents. For example, you can now place interactive HTML content into an InDesign layout, and this content persists even when you export the document to HTML, ePub 3, or .folio format.

Specific ePub Enhancements

Adobe has enhanced ePub support so that output is more likely to pass ePub validators. InDesign CS6 supports users' CSS formatting files, allowing a reset to a device's default settings before rendering.

Adobe's previewer isn't accurate in showing what an actual ePub reader will display, so testing output on a tablet device is essential. However, InDesign now exports .xhtml files for better e-reader compatibility.

Creating an ePub file is far easier in CS6 than it was in previous versions. For example, in the Paragraph Style options, the new Export Tagging category has a checkbox: Split Document (ePub only). When you export to ePub, you can use this feature to break pages based on paragraph style sheets.

Better PDF File Handling

InDesign CS6 lets you create most common PDF items, including text fields, radio buttons, checkboxes, pop-up menus, and signature fields, as well as buttons for printing, submitting email forms, and clearing forms. It includes a collection of prebuilt, interactive PDF form elements for your page.

Adobe also added the ability to export a PDF from InDesign as a grayscale file, to reduce file size and complexity when printing with black ink. You can now also export the file as separate pages rather than as spreads, and preview a page as it might appear printed in grayscale.

Text-Handling Facility

In InDesign CS6, font menus group your most recently used fonts at the top. You can now set the Keep options for paragraphs that split or span columns to ensure that their lines and paragraphs stay together. This option also works with tables. A text frame containing multiple columns now automatically adds or removes columns when it's resized. For new documents, there is an option for a Primary Text Frame, allowing you to choose a text frame on the master page to fill with text on the document pages, without overriding the frame.

General Improvements

InDesign has plenty of enticing new features to make your workflow more efficient. For example, all frames that contain placed content now have a link badge indicating the status of the

content. You can also zoom in to linked objects from the Links panel.

Macworld's Buying Advice

For people who need to create ePub

content or PDF forms, an upgrade to InDesign CS6 is totally worthwhile.

Jay J. Nelson is the publisher of *Design Tools Monthly* (www.design-tools.com).

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CAMCORDERS

High Definition

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
Bloggie Live (pictured) www.sony.com	★★★★½	\$218	Full HD	7821
HMX-Q10UN www.samsung.com	★★★★	\$219	Full HD	7617



DIGITAL CAMERAS

Point-and-Shoot

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
PowerShot G12 www.canon.com	★★★★½	\$499	10-megapixel	7820
PowerShot SX260 HS (pictured) www.canon.com	★★★★	\$299	12-megapixel	7879



DIGITAL CAMERAS

SLR

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
D7000 www.nikon.com	★★★★½	\$1097	16-megapixel	7618
EOS Rebel T3i (pictured) www.canon.com	★★★★½	\$509	18-megapixel	7190
Olympus OM-D E-M5 www.olympusamerica.com	★★★★½	\$999	16-megapixel	7818



DVD BURNERS

Desktop and Portable

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
d2 DVD±RW w/LightScribe www.lacie.com	★★★★	\$78	desktop	3900
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	★★★★	\$149	Blu-ray	5344



PRINTERS

Inkjet

PRODUCT	RATING	PRICE ¹	TYPE	FIND CODE ²
Officejet Pro 8000 Wireless www.hp.com	★★★★	\$184	desktop	7876
WorkForce Pro WP 4020 (pictured) www.epson.com	★★★★	\$100	photo	7819

¹ All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ² In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

HELP DESK

Answering Your Questions and Sharing Your Tips about Getting the Most from Your Mac

Mac OS X Hints

The insider tips you won't get from Apple

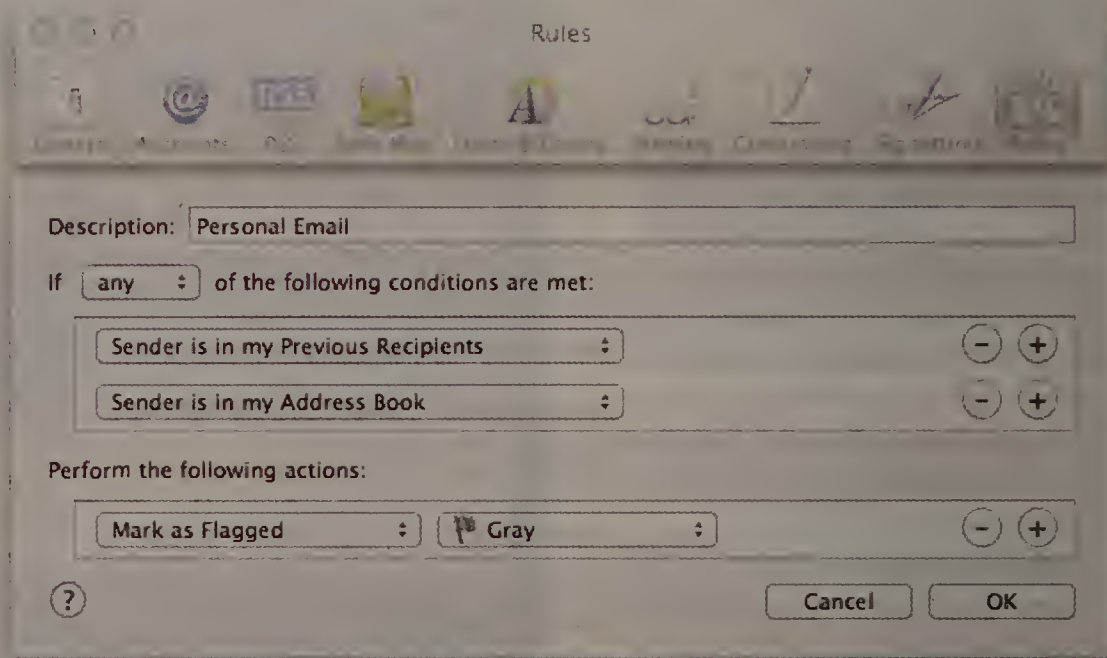
BY KIRK MCELHEARN

Make Mail Dock Icon Show Important Messages

Seeing the important email messages among all the others cluttering your inbox is difficult. But one reader figured out a way to have the badge on Mail's Dock icon display only the count of the messages you really care about—those from people you know.

To set it up, first create a new rule: Go to Mail ► Preferences and click Rules, and then Add Rule. Name the rule 'Personal Email' and then define it: It should match *any* of the following conditions: Sender Is In My Previous Recipients or Sender Is In My Address Book. For messages that match one or both of those criteria, the rule's action should be Mark As Flagged (select a flag color that you aren't already using for something else).

That done, create a smart mailbox called Relevant Email (Mailbox ► New Smart Mailbox). Specify that messages in the smart mailbox satisfy *all* of the following conditions: Message Is Unread, Message Has Flag (select the color you chose in the rule above), Message Is In



Highlight Important Messages Make your Dock icon show the number of messages you need to read by combining a rule (shown here), a smart mailbox, and one settings tweak.

Mailbox (select Inbox from the drop-down menu), and Any Recipient Contains (enter your email address).

Finally, go to the General tab in Mail's preferences and, for Dock Unread Count, choose the Relevant Email mailbox you just created. The badge on Mail's Dock icon will now show you the number of unread personal email messages from the smart mailbox you just created.

You could, of course, tweak the rule to match other conditions—email from your company's domain, for example, or messages from a group you've defined in Address Book—and have the Mail app's Dock icon indicate those instead.

Stop the Lion Rubber-Band Bounce

One thing that annoys many Lion users who use trackpads (such as Apple's own Magic Trackpad, or the trackpad on a MacBook) is the "rubber-band" effect you get when scrolling: In many apps, when

you scroll down to the end of a page, your scrolling momentum causes the page to run past the end, rise up slightly on screen, and then bounce back. (The same thing happens to the top of the screen when you're scrolling up.) If that action annoys you, there is a way to turn it off.

As is the case with so many other hidden settings in OS X, the fix for this is just a Terminal command away. In Terminal (/Applications/Utilities), enter this command (or copy and paste it from macworld.com/a/1167089) on one line, and then press Return:

```
defaults write -g NSScrollViewRubberbanding -int 0
```

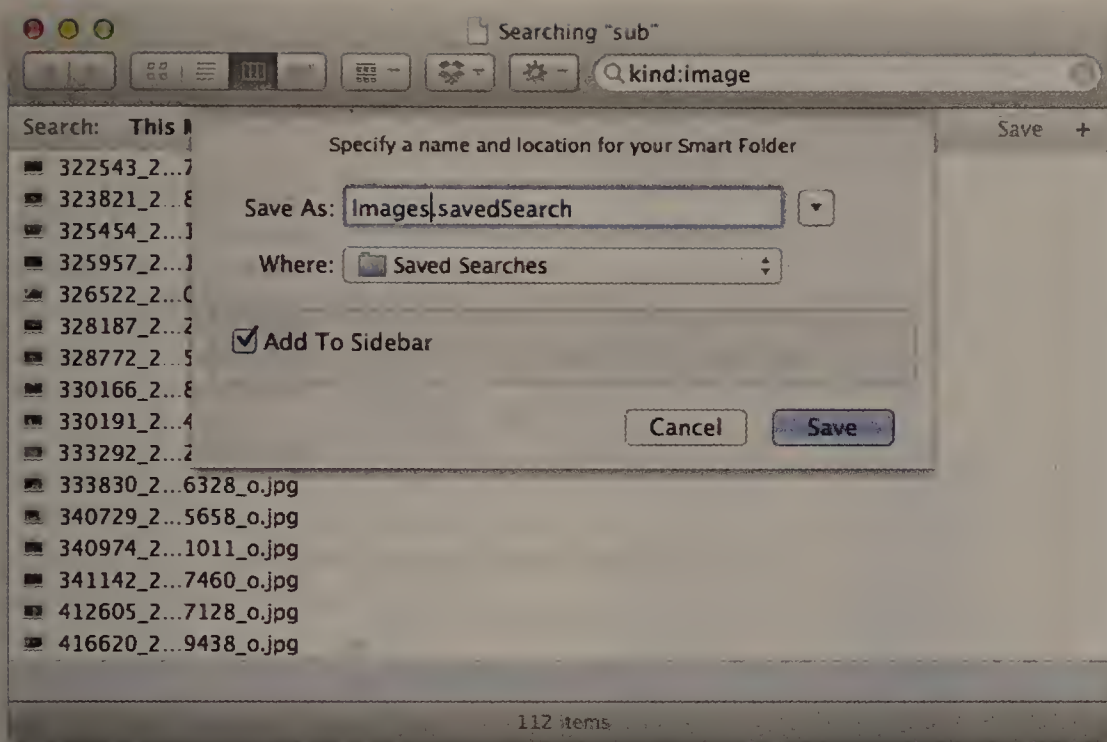
This command should stop the behavior in the Finder, as well as in Mail, Preview, and TextEdit, among other applications. It doesn't work universally, though—Safari is a notable exception.

If you want to revert to the standard bouncy behavior, just run this command on one line in Terminal and press Return:

Have a Hint to Share?

Navigate to MacOSXHints.com to submit it. This column was based on tips from Łukasz Pawelczyk, Radek Szklarczyk, and anonymous contributors. Each month, the author of our favorite reader-supplied tip is eligible to receive a *Help Desk* mug.





Quick Access to iOS Photos If you use Photo Stream, get fast access to photos you've taken on your iPad or iPhone by setting up a simple smart folder on your Mac.

defaults delete -g NSScrollViewRubberbanding

In both cases, you need to quit and relaunch any applications that displayed the rubber-band effect.

Send Photos from iOS to a Mac

There are plenty of ways to transfer photos from an iOS device to a Mac—I generally email them to myself or use Messages—but it can still be a hassle. I recently found a tip online (at theiconmaster.com) that proposes a different solution.

First, make sure you have Photo Stream enabled on each of your iOS devices, as well as on your Mac. Next, go to *youruserfolder/Library/Application Support/iLifeAssetManagement/assets*. There you'll see a bunch of subfolders with names like '013184d3f181aa175db7e48bo8817861eff8cac25a'. Search for image files in this folder by typing **kind:image** in the search field and selecting Sub as the focus of the search. (If you take a lot of photos or screenshots and only want to find one or the other, you could instead search for **png** for screenshots or **jpg** for photos.)

Now save this search as a smart folder by clicking the Save button just below the search field. Name it and save it wherever you want; by default it goes in the Saved Searches folder, but you can check the box

that reads Add To Sidebar if you want quick access from the Finder sidebar. You can also choose a different location for the smart folder, such as your desktop. If you want this folder in the Dock, add it by dragging the folder there.

Now whenever you need quick access to a photo or screenshot you've taken on an iOS device, just open this folder and find it there. If you have a lot of files, you might want to add the Date Created column (Control-click the sort headers and choose Date Created from the list), and then sort by date (click the Date

Created header so the photos with the most recent dates appear at the top).

Delete Mail Messages with a Hidden Shortcut

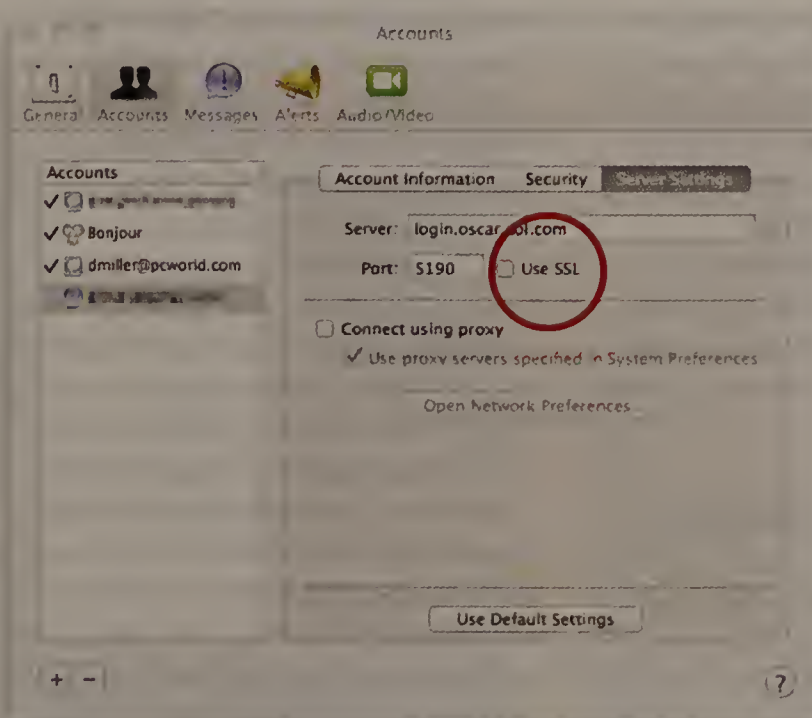
Macworld senior editor Dan Frakes recently told me that he'd stumbled on an undocumented keyboard shortcut for deleting messages in Mail: Control-H. Pressing that key combo does the same thing as pressing the Delete key.

That might seem odd, but it really isn't: Control-H is the Unix *key binding* (aka shortcut) for the Delete or Back-space key. That means you can use Control-H to delete text in apps that rely on the Cocoa text-input framework. The shortcut's ability to delete Mail messages is a useful side benefit.

Fix iChat Connection Problems

There are days when I can't connect to the AIM servers that iChat uses. The fix is simple yet unexpected.

I use SSL with iChat, and sometimes all it takes to fix the connection is to turn SSL off. Go to iChat ► Preferences, click Accounts, select your account, and then click the Server Settings tab. You must be offline to make changes here. If you see Use SSL checked, uncheck it, and then take that account online again. If you still want to use SSL, you can now turn the setting back on. I don't know why this works, but it does.



iChat Fix When iChat won't connect to the AIM servers, sometimes you just need to turn the SSL setting off.

Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN

Manually Configure an iCloud Email Account

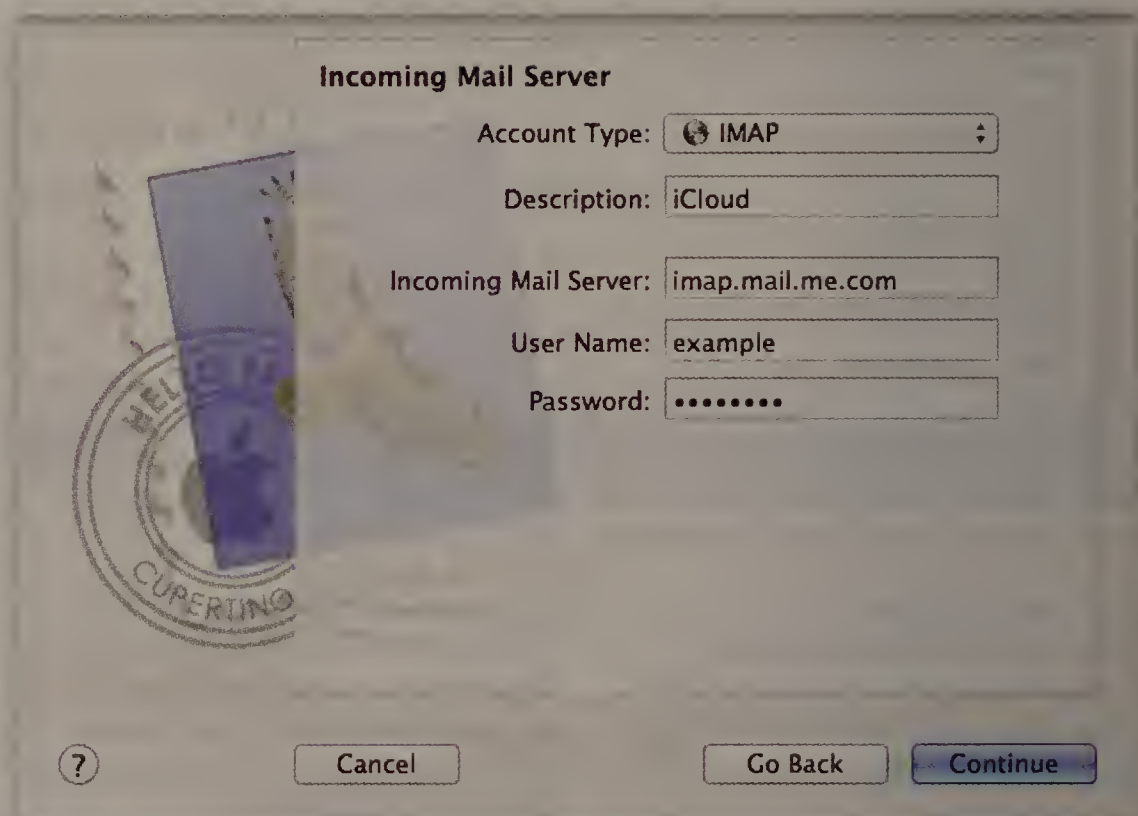
Q: My .Mac address works perfectly well on my iPhone and iPad but doesn't work in Mail on my MacBook Pro. I get login errors whenever I try to use it. I've entered my password time and again (I even tried some older passwords), with no luck. Is there a way to reset the account so it works again?

Matthew Hansman

A: You could start over. To do that, launch Mail, open its preferences, click the Accounts tab, select your iCloud account, and click the minus-sign button (–) below the list of accounts. Then click the plus-sign button (+). In the Add Account sheet that appears, enter your iCloud email address and password, and then click Create. Mail then sets up your account, and all should be well.

It doesn't always turn out that way, however. Some people have had difficulty making older MobileMe accounts work with iCloud. And yet, when they try to set up such an account manually, they're thwarted because there doesn't appear to be a way to fiddle with iCloud's IMAP and SMTP settings. But you can do it if you know the secret.

While in Mail's Accounts tab, click on the plus-sign button and enter your iCloud address and password as you normally would. The button at the bottom reads Create. Hold down the Option key and that button changes to read Continue. Click on Continue and you can manually configure the account.



Do-It-Yourself Configuration By holding down the Option key, you can manually configure an iCloud email account in Apple's Mail.

In the next sheet (which reads Incoming Mail Server), choose IMAP from the Account Type pop-up menu. Leave iCloud in the description field. In the Incoming Mail Server field, enter **imap.mail.me.com**. Mail should fill in your username and password automatically (see "Do-It-Yourself Configuration"). If the button at the bottom of the sheet doesn't read Continue, hold down the Option key and it will. Click that button.

In the next sheet (Incoming Mail Security), enable the Use Secure Socket Layer (SSL) option and choose Password from the Authentication pop-up menu. Click Continue (again, holding down the Option key if the button reads Create).

In the Outgoing Mail Server sheet that appears next, enter **iCloud** in the Description field, enter **smtp.mail.me.com** in the Outgoing Mail Server field, enable the Use Authentication option, and enter your complete email address in the User Name

field and your password in the Password field. Then click Continue.

In the penultimate Outgoing Mail Security sheet, enable the Use Secure Sockets Layer (SSL) option and, from the Authentication pop-up menu, make sure Password is selected. Click Continue one more time.

The final sheet shows you the account configuration. Look it over to make sure you've entered everything correctly. (If not, use the Go Back button to do exactly that and make corrections where needed.) Click Create to create your account. Your email account should now work as expected.

Reinstall Rosetta

Q: I recently had a new hard drive installed on my Intel MacBook Pro running Mac OS X 10.6.8. Before I added the new hard drive, I could run applications that used Rosetta. With the new hard drive in place, Rosetta is no

Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) to ask about your misbehaving Macs and applications.

longer present, and I can't figure out how to reinstall it.

Via the Internet

A: Normally, when you try to run a PowerPC application under Snow Leopard, a dialog box appears, indicating that said application can't run natively and you need to acquire Rosetta. If your Mac is connected to the Internet, clicking a button in this dialog box downloads and installs Rosetta.

If that isn't doing the trick, insert your Snow Leopard disc, open the Optional Installs folder on that disc, and double-click the Optional Installs.mpkg package. The Installer opens, prompting you to click Continue a couple of times and then choose a destination for the installation. Choose your startup volume and click Continue yet again. In the Custom Install window that appears, enable the Rosetta option and click Continue. In the next window, click Install to do just that.

Transfer Email from One Mac to Another

Q: I need to move all my messages in Mail from my iMac to my MacBook Pro. How can I do this and make sure I get all my recent messages onto the new computer?

Wally Bock

A: There are a couple of ways to address this. If you're specifically interested in your recent email and not in older mail, it makes sense to create an archive of just those messages you want, and then move them.

To do that, launch Mail on your iMac and, from the Mailboxes menu, choose New Smart Mailbox. In the sheet that appears, create a smart mailbox with a condition that reads Date Received Is In The Last 6 Months (or whatever time period you want). If you'd like to include sent messages, enable the Include Messages From Sent option. Give the mailbox an intuitive name such as 'Recent Email' and click OK. A Recent Email mailbox appears under Smart Mailboxes in Mail's Mailboxes pane.

Bugs & Fixes BY TED LANDAU



Old Flash Player and New

Safari Safari 5.1.7 disables all out-of-date versions of Adobe

Flash Player as part of its installation process. However, as Apple explains in a support document, Safari is still capable of working with the older versions of Player (if you prefer not to get the latest one for some reason). To reactivate a previously installed Player version, go to the root-level Library folder on your drive and locate the Internet Plug-Ins (Disabled) folder. From within this folder, find Flash Player.plugin and drag it to the Internet Plug-Ins folder in the same Library folder. Quit and restart Safari.



Problems after Using 'Apply To Enclosed Items'

If you select Get Info (⌘-I) for a folder in the Finder, and then select the Action menu at the bottom, you'll find a command called Apply To Enclosed Items. If you make any changes to the Sharing & Permissions section, you can use this command to apply the changes to all items within the folder (as opposed to just the selected folder itself). Unfortunately, when you are running Lion (OS X 10.7.3 or earlier), this can lead to a host of problems. Possible symptoms include a persistent

failure to save changes made within System Preferences and/or a loss of changes made to Dock icons. Happily, the fix is fairly simple: Update to OS X Lion 10.7.4 or later. Next, select the Apply To Enclosed Items command for your Home directory folder, click OK when requested, and wait for the process to complete.



Solve TextEdit Open and Save Failures

I use TextEdit so often that I leave it permanently open. This appears to precipitate some odd symptoms. On several occasions, after I had left TextEdit open for a long while, it claimed that it was no longer able to save documents. In one instance, TextEdit also refused to open existing documents, claiming that it had "insufficient permission" to do so (even though it had never had difficulty before). In all these cases, the solution is easy: Quit TextEdit and relaunch it. Everything then works fine again ... until the next time it doesn't.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

Now Control-click (or right-click) the smart mailbox you created and choose Export Mailbox from the resulting menu. Save the mailbox archive to the desktop, and then click Choose. A Recent Email.mbox item appears on your Mac's desktop. Copy this item to your MacBook Pro.

On the MacBook Pro, launch Mail and, from the File menu, choose Import Mailboxes. In the window that appears, make sure that Apple Mail is selected, and then click the Continue button. Navigate to the Recent Email.mbox item and click Choose. This imports your messages into an Import folder that appears under the On My Mac heading in Mail's Mailboxes pane.

If, on the other hand, you want an exact duplicate of your iMac's email on your MacBook Pro, you can manage that as well. Quit Mail on your iMac, move to the Finder, and, from the Go menu, choose Library (if you're using Lion, hold down the Option key and click on the Go menu to make the Library entry visible). Locate the Mail folder inside the Library folder and copy it to your MacBook Pro. Before leaving the Library folder, open its Preferences folder and copy the com.apple.mail.plist file to your MacBook Pro as well.

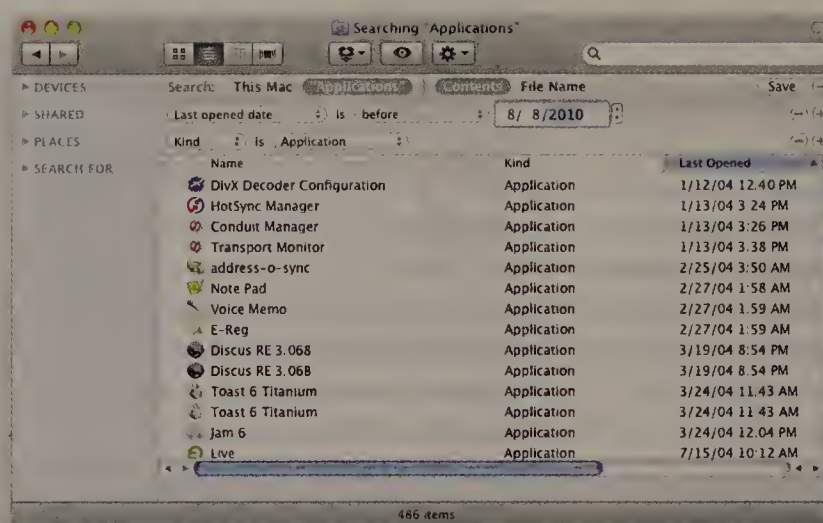
On the MacBook Pro, navigate to that same Library folder and move its Mail folder and com.apple.mail.plist files to the desktop for safekeeping (you'll be

prompted for your administrator password). Copy the versions of these items from the iMac to the same location on the MacBook Pro.

Now launch Mail on the MacBook Pro, and you should find the same messages and mailbox structure as in Mail on your iMac. If not, you can put things back the way they were by removing the items you just added to your MacBook's Library folder and replacing them with the originals you moved to the desktop.

Locate and Dispense With Old Applications

Q: My Applications folder contains hundreds of old apps that I never use. I came up with the clever idea of sorting them by the date I last opened them so that I could toss out any unwanted apps. I'm running Snow Leopard, and when I open my Applications folder in List or Cover Flow views and choose View ► View Options, the option



to order files by Last Opened is grayed out. Is there some way to make it active?

Chas Hamilton

A: Apple disabled that option in Snow Leopard—as you've seen, although it exists, it's grayed out. But where there's a will, there's a way.

Open the Applications folder and press ⌘-F. In the resulting search

window, click Applications at the top of the window so you're searching that folder. Configure the pop-up menus at the top of the window to read Last Opened Date Is Before MM/DD/2010 (enter a month and day starting the time period you wish to define). Click the plus-sign button (+) to create another condition. Configure this one to read Kind Is Application. (You do this

Untouched Apps
Use Snow Leopard's Find feature to locate applications you're no longer using.

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because your Applications folder may contain not only applications, but other varieties of files—help and documentation files, for example—that you haven't opened in the last few years.)

The resulting list should contain only those applications you haven't used in the last two years (see "Untouched Apps"). It's possible that you won't see a Last Opened column in this list.

If that's the case, press ⌘-J to bring up the View Options window. In this window, enable the Last Opened option (which in this particular instance actually *does* work). With this column visible, you can then sort the list by date, making it easy to locate those applications you haven't turned to for anything lately. Naturally, before you toss out any of these less-favored applications, you'll want to examine them carefully so you don't accidentally discard something you anticipate needing someday.

MAC 101

Gifting Mac Applications

Q: Is there a way to gift an application from the Mac App Store as you can within the iOS App Store?

Via the Internet

A: Unlike the App Store on your iOS device or in iTunes, the Mac App Store doesn't provide a Gift This App link. What I suggest you do instead is launch iTunes, click the iTunes Store link, and then click the Buy iTunes Gifts link on the store's home page. On the resulting iTunes Gifts page, click the Buy Now link in the Email Gift Certificates area, purchase a gift certificate that covers the cost of the application you want to gift, and then issue the gift certificate to the object of your affection.

Next, open the Mac App Store, select the application you want to send as a gift, and, from the price pull-down menu, choose Tell A Friend. In the window that appears, enter the recipient's email address, and in the Message field, enter a message that strongly hints you'd like your buddy to use that gift certificate to purchase this particular application.

Note that if you're running Lion, this isn't an issue. While Apple seemed content to leave the option grayed out in

Snow Leopard, it thought better of that move with Lion: It renamed the option Date Last Opened and enabled it.

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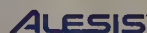
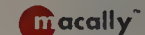
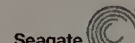
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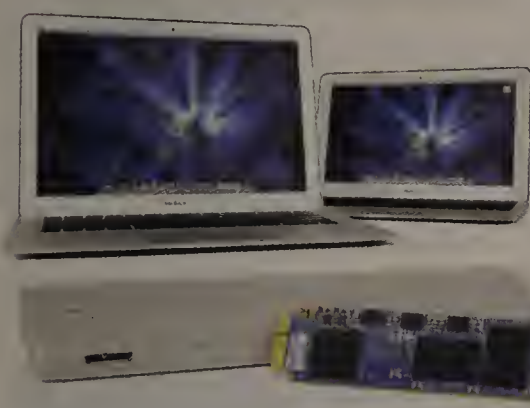
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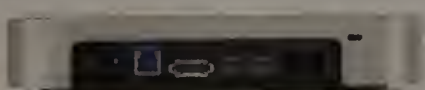
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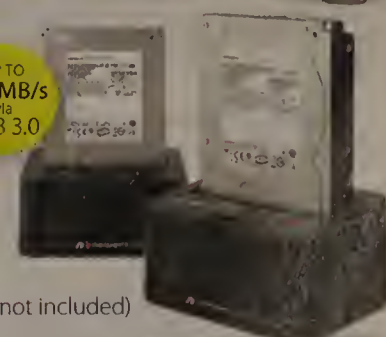
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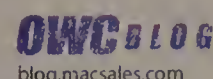
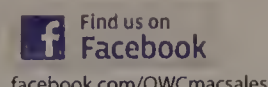
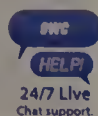
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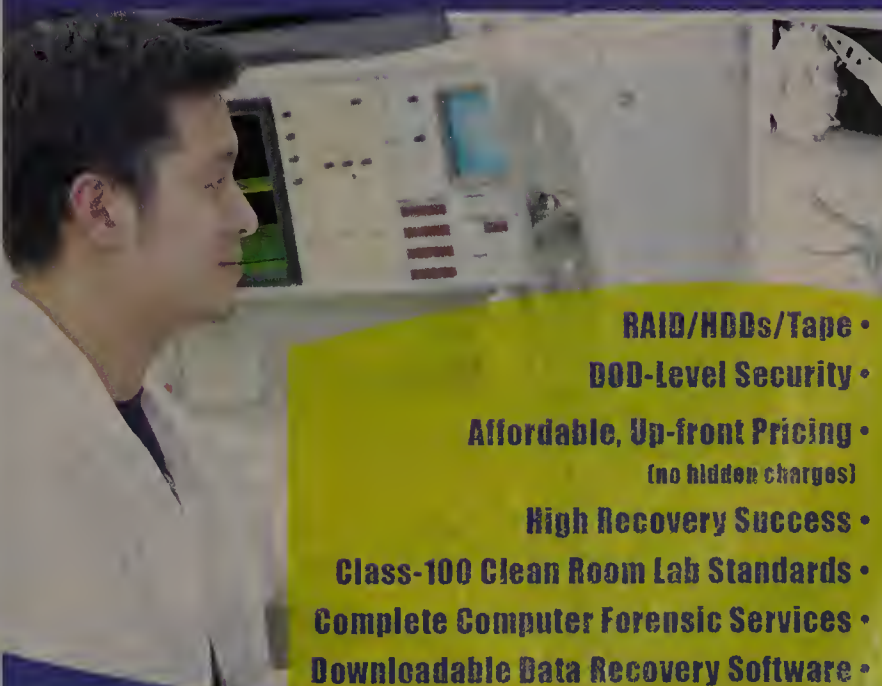


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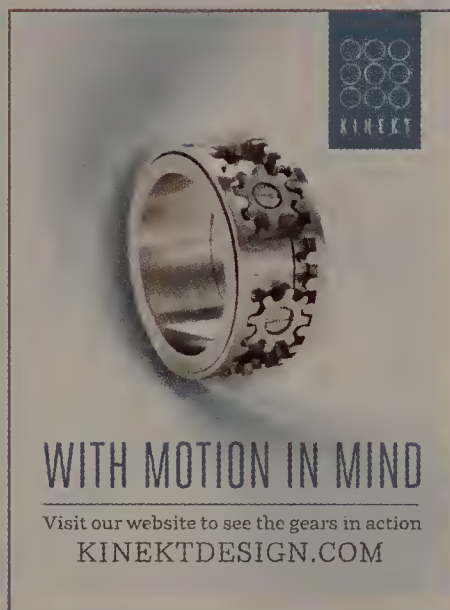
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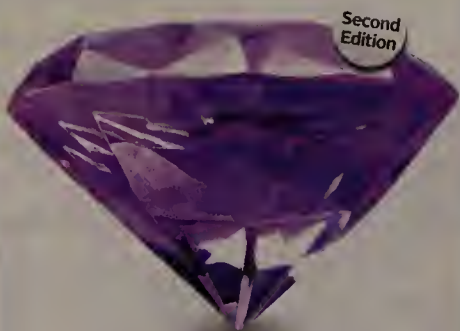
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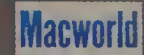
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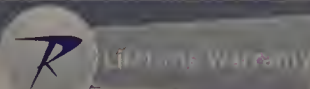


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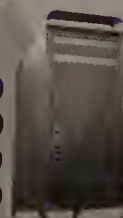
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The Splintering of OS X

Is Apple going to split the Mac OS into two separate product lines?

If you've been waiting for a new Mac Pro, you were likely disappointed by the recent (minor) speed-bump upgrade—the first revision to the Pro model in almost two years. But that update is only the worst case of Apple's neglect; none of the Mac models are exactly burning rubber on the upgrade track.

It's been a year since the last Mac mini upgrade, and more than a year for the iMac. Similarly, with the exception of the MacBook Pro with Retina display (read the review, page 46), Apple's laptops have seen only minor changes in the past couple of years.

Don't expect the pace to pick up soon. In an unusual hint about Apple's future plans, Tim Cook recently told a Mac Pro customer: "We're working on something really great for later next year"—in other words, don't expect any significant changes for another 12 months at least.

Why is Apple taking so long with these upgrades? It could be a hardware matter. Maybe Apple is waiting for certain components to become more widely available. Maybe. But I think there's another possible explanation: Perhaps Apple is instead delaying major hardware upgrades while it waits for the release of the next iteration of the Mac operating system: OS X 10.9.

It's the Software

Apple's long-term strategy is clear: It wants to make OS X the functional equivalent of iOS. The transition started in Lion, but moved into high gear with Mountain Lion. Every major new feature in Mountain Lion is either already in iOS 5 or is due to be included in iOS 6. Without the iOS-related changes, there would be almost no point in releasing Mountain Lion.

How much further can Apple go with the iOS-ification of OS X? The company could be planning to implement on the Mac many of the restrictions already found on iOS devices.

While Apple might not force OS X users to get *all* of their software from the Mac App Store, it could make non-App Store apps less desirable. By limiting some OS X features, such as iCloud integration, to App Store apps, Apple is already moving in that direction. This, in turn, restricts the features of third-party software, because App Store apps must comply with Apple's sandboxing policies.

Apple could also cut off end-user access to the Mac OS (a trend begun with the decision to make the user's Library folder invisible in Lion). The company could remove Terminal and other system-level utilities from OS X. Apple could even get rid of the Finder or make it optional. Finally, it could make it impossible to run software that's used to develop software (such as Xcode).

Pro vs. Consumer

"If Apple does that," you might wonder, "how would developers create new software?" Apple could solve that dilemma by splitting OS X in two: a

consumer version (with all the restrictions I just described) and a less-restricted professional version.

A pro OS X version could simply be the consumer OS X with added features, enabled by "flipping a switch"—much the way OS X Server now works. Or they could be two entirely separate variants of OS X. In either case, I would expect the high-end Macs (the MacBook Pro and Mac Pro) to come with access to both variations, while the consumer Mac models (the iMac, Mac mini, and MacBook Air) would by default include the consumer OS X version only.

If this scenario is true, it could explain why we have to wait until 2013 to see major hardware upgrades. Apple could be planning to retool its hardware lineup in coordination with a software split.

Would there be protests about this split? Of course. Especially for the consumer OS. There have already been objections to the "dumbing down" of OS X in Lion and to the App Store limitations imposed by sandboxing. However, with hordes of users comfortable with how these things work on iPhones and iPads, and with another year to learn to accept the iOS-like changes in Mountain Lion, Apple may rightly assume that the majority of its customers will be ready for this transition.

For Apple, dividing OS X in two would offer a chance to retool the Mac in the image of iOS devices, with the added security and control that Apple welcomes. At the very least, a split would allow Apple to satisfy the extremes of both pro and consumer markets without having to make a middle-of-the-road compromise.

A pro OS X version might simply be the consumer OS X with added features.



Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). This article is based on a column that originally appeared on Mac Observer (www.macobserver.com).

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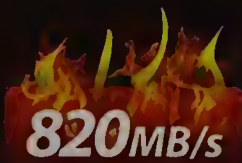
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